www.manualscenter.com

Service Manual

PIONEER®

The Art of Entertainment

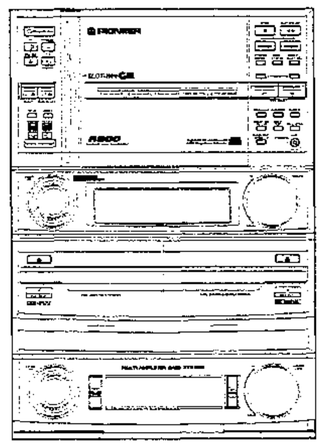


Illustration shows model XR-A800

ORDER NO.
ARP2972

STEREO FILE-TYPE CD CASSETTE DECK RECEIVER

XR-A800

XR-A700

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method
	XR-A800	XR-A700		
DDXJ	○	○	AC110-127V/220-230V/240V	With the voltage selector
DXJ/NC	○	○	AC110-127V/220-230V/240V	With the voltage selector
DLXJ/NC	○	○	AC110-120V/220-230V/240V	With the voltage selector

CONTENTS

1. SAFETY INFORMATION 2
2. EXPLODED VIEWS AND PARTS LIST 4
3. SCHEMATIC DIAGRAM 20
4. PCB CONNECTION DIAGRAM 41
5. PCB PARTS LIST 56
6. ADJUSTMENT 65
7. GENERAL INFORMATION 75
   - 7.1 PARTS 75
   - 7.1.1 IC 75
   - 7.1.2 DISPLAY 78
   - 7.2 DIAGNOSIS 79
   - 7.2.1 DISASSEMBLY 79
   - 7.2.2 PCB LOCATIONS 81
   - 7.3 BLOCK DIAGRAM 82
8. PANEL FACILITIES AND SPECIFICATIONS ... 84

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

©PIONEER ELECTRONIC CORPORATION 1997

O – SZG OCT. 1997 Printed in Belgium

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

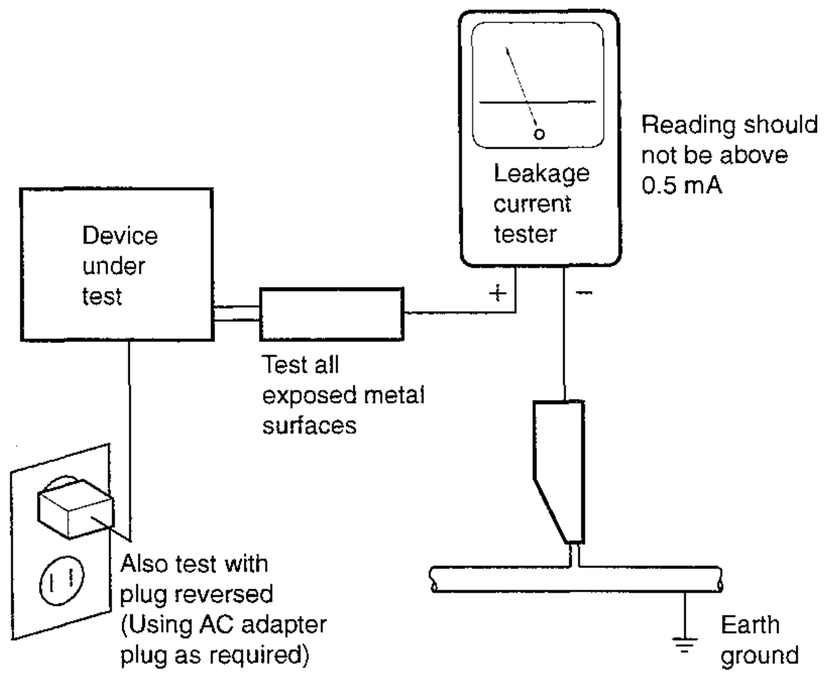
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

LABEL CHECK (for DLXJ/NC type)

www.manualscenter.com

XR-A700/DLXJ/NC

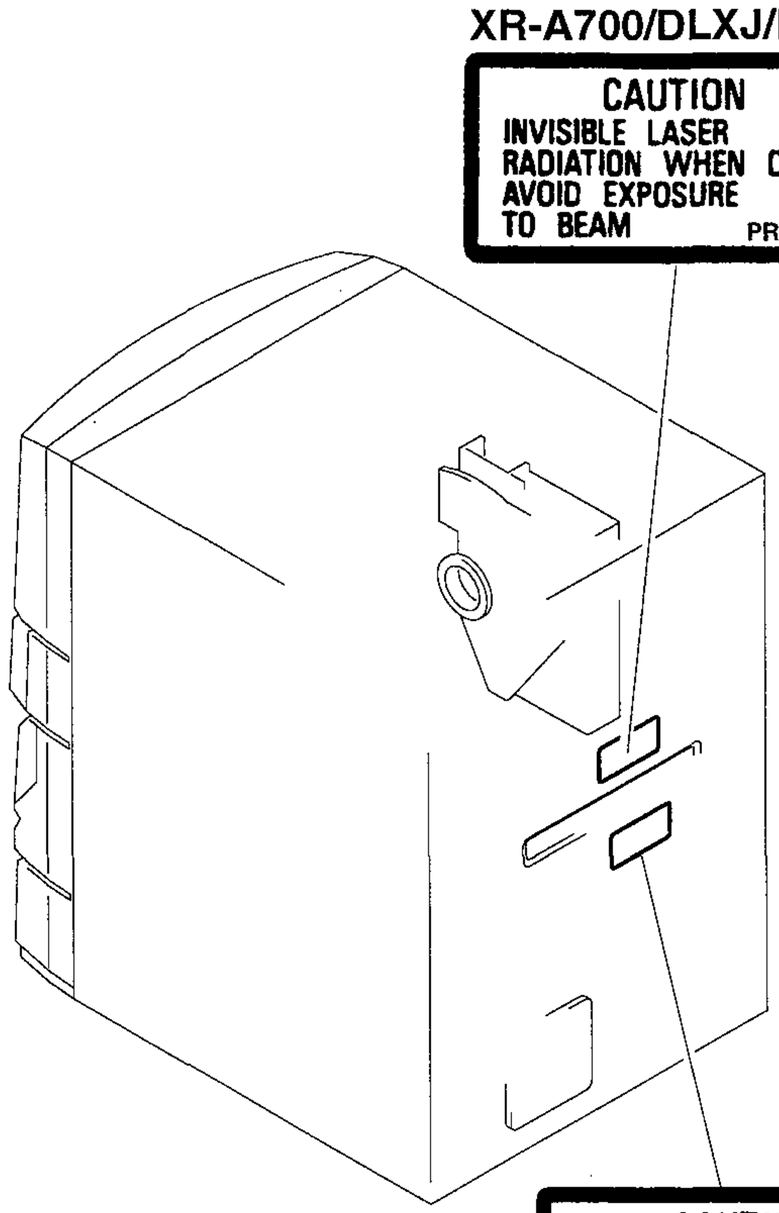


Illustration shows model XR-A800

XR-A800/DLXJ/NC

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S651) for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S651) is not on $\overline{\text{CLMP}}$ terminal side ($\overline{\text{CLMP}}$ signal is OFF or high level.) Thus, the interlock will no longer function if the switch (S651) is deliberately set to $\overline{\text{CLMP}}$ terminal side. (low level)
   The interlock also does not function in the test mode*.
   Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the PRE-AMP BOARD ASSY mounted on the pickup assembly is connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q101 are shorted to each other (fault condition).

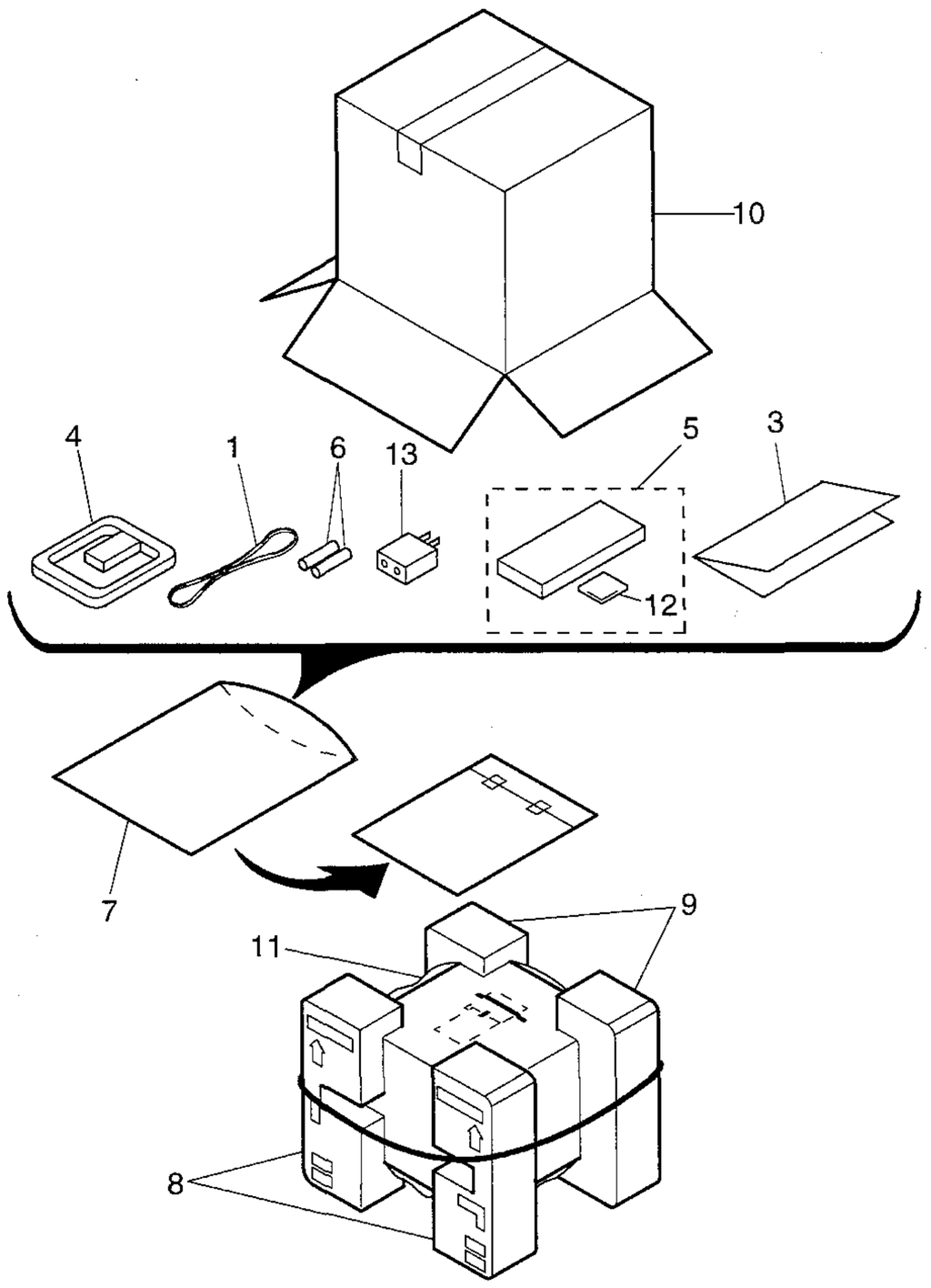
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

*Refer to page 71.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

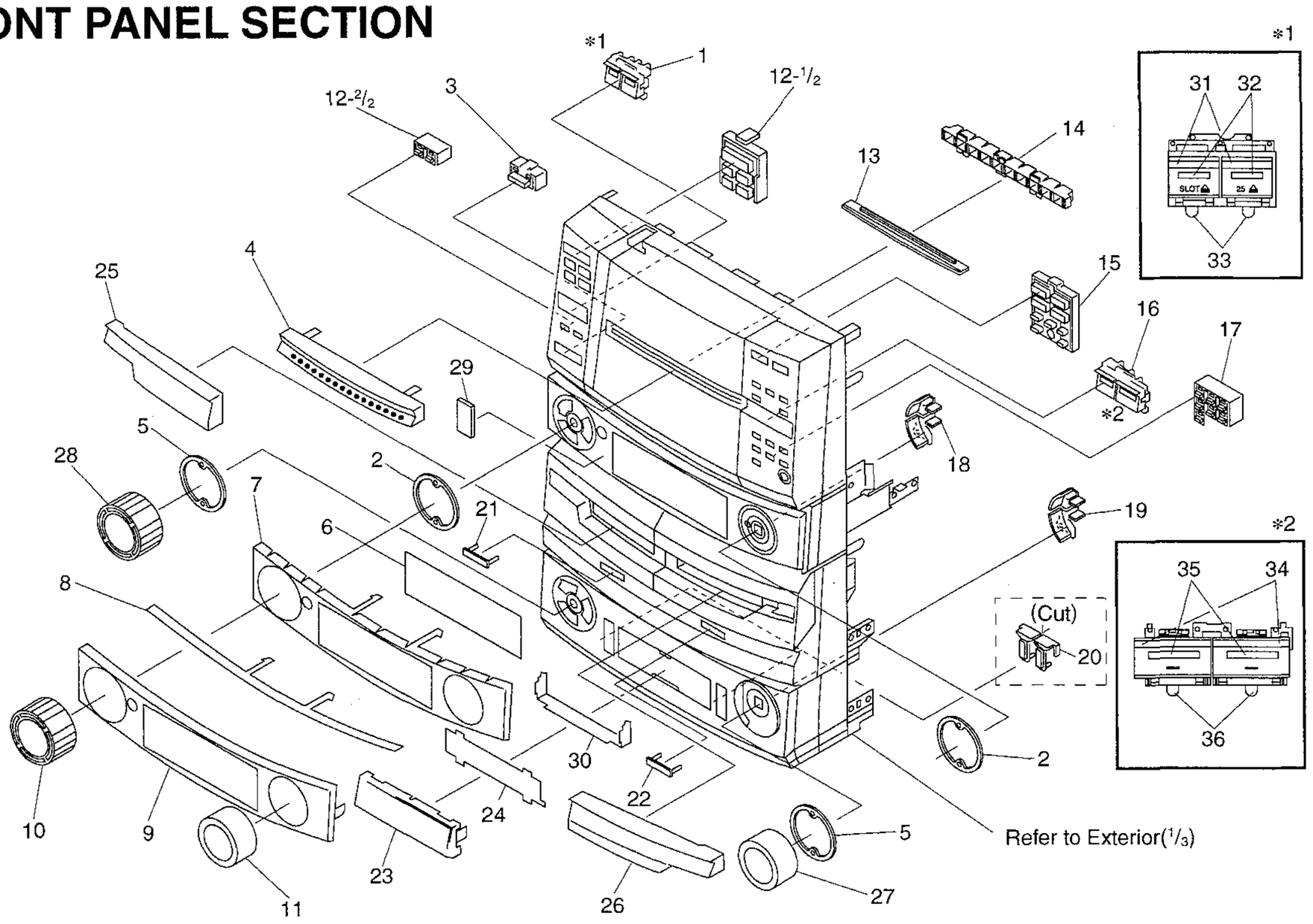
Mark	No.	Description	Part No.
	1	FM Antenna	ADH7007
	2	.....	
	3	Operating Instructions	See Contrast table (2)
	4	AM Loop Antenna	ATB7007
	5	Remote Control Unit	See Contrast table (2)
NSP	6	AA/R6P Dry Cell Batteries	VEM-013
NSP	7	Vinyl Bag	See Contrast table (2)
	8	Front Pad	See Contrast table (2)
	9	Rear Pad	See Contrast table (2)
	10	Packing Case	See Contrast table (2)
	11	Packing Sheet	AHG7049
	12	Battery Cover	AZA7281
	13	Power-cord Plug Conversion Adaptor	See Contrast table (2)

(2) CONTRAST TABLE

XR-A800/DDXJ, DXJ/NC, DLXJ/NC, XR-A700/DDXJ, DXJ/NC and DLXJ/NC types are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A800			XR-A700			
			DDXJ	DXJ/NC	DLXJ/NC	DDXJ	DXJ/NC	DLXJ/NC	
	3	Operating Instructions (English/Spanish/Chinese)	ARE7145	Not used	Not used	ARE7145	Not used	Not used	
	3	Operating Instructions (English/Spanish/Portuguese)	Not used	ARE7151	Not used	Not used	ARE7151	Not used	
	3	Operating Instructions (English/Chinese)	Not used	Not used	ARE7150	Not used	Not used	ARE7150	
	5	Remote Control Unit (CU-XR045)	AXD7147	AXD7147	AXD7147	Not used	Not used	Not used	
	5	Remote Control Unit (CU-XR044)	Not used	Not used	Not used	AXD7146	AXD7146	AXD7146	
NSP	7	Vinyl Bag	AHG7037	AHG7037	AHG7037	AHG7038	AHG7038	AHG7038	
	8	Front pad	AHA7193	AHA7193	AHA7193	AHA7177	AHA7177	AHA7177	
	9	Rear pad	AHA7194	AHA7194	AHA7194	AHA7178	AHA7178	AHA7178	
	10	Packing Case	AHD7523	AHD7524	AHD7524	AHD7518	AHD7519	AHD7519	
	13	Power-cord Plug Conversion Adaptor	Not used	VKX1007	Not used	Not used	VKX1007	Not used	

2.2 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Disc Button Assy L	AXG7054
	2	Knob Spacer	AAK7498
	3	SOUND Button	AAD7428
	4	25 Window	AAK7482
	5	Knob Spacer (BASS SYNTH)	See Contrast table (2)
	6	FL Filter	AAK7485
	7	FL Cover A	AAK7519
	8	FL Cover B	AAK7530
	9	FL Window	AAK7481
	10	Jog knob Assy	AXG7051
	11	Volume Knob	AAB7134
	12	Power Button	AAD7427
	13	25 Lens	AAK7489
	14	LED Holder	AMR7196
	15	Play Button	AAD7426
NSP	16	Disc Button Assy R	AXG7055
	17	Program Button	AAD7425
	18	VOL. Ring	AAK7488
	19	VOL. Ring (BASS SYNTH)	See Contrast table (2)
	20	Bass Button (P.BASS, BASS SYNTH)	See Contrast table (2)
	21	Azimuth Cover L	AAK7527
	22	Azimuth Cover R	AAK7528
	23	EQ Window	See Contrast table (2)
	24	EQ Filter	See Contrast table (2)
	25	Deck Door Lens L	AAK7459
	26	Deck Door Lens R	AAK7460
	27	Volume Knob (WOOFER LEVEL)	See Contrast table (2)
	28	Jog knob Assy (P.BASS JOG)	See Contrast table (2)
	29	FL Spacer	AEB7108
	30	EQ Cover	See Contrast table (2)
	31	Disc Button Cap L	AAK7487
	32	Disc Lens L	AAK7491
	33	Disc Button L	AAD7429
	34	Disc Button Cap R	AAK7522
	35	Disc Lens R	AAK7493
	36	Disc Button R	AAD7433

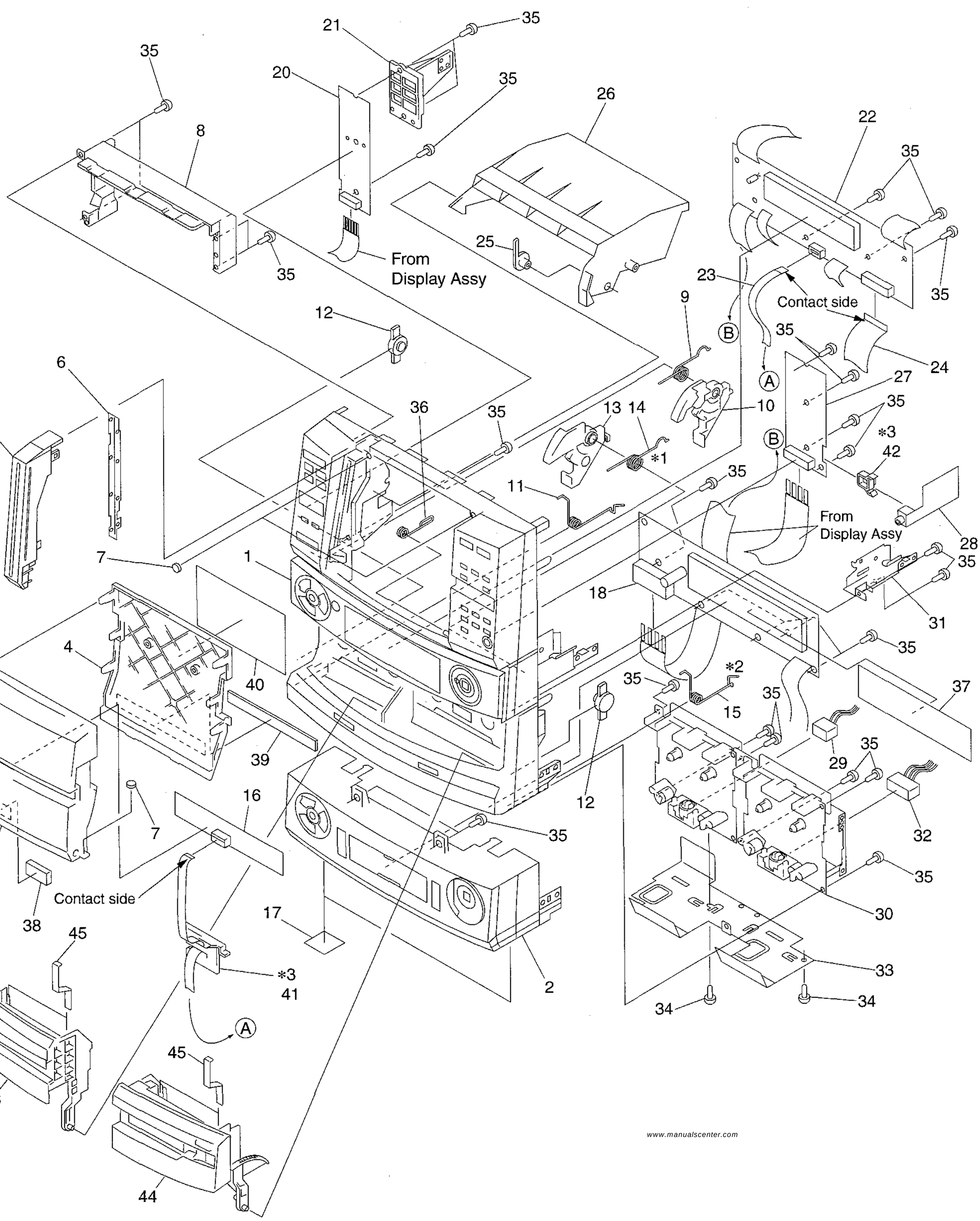
(2) CONTRAST TABLE

XR-A800/DDXJ, DXJ/NC, DLXJ/NC, XR-A700/DDXJ, DXJ/NC and DLXJ/NC types are constructed the same except for the following :

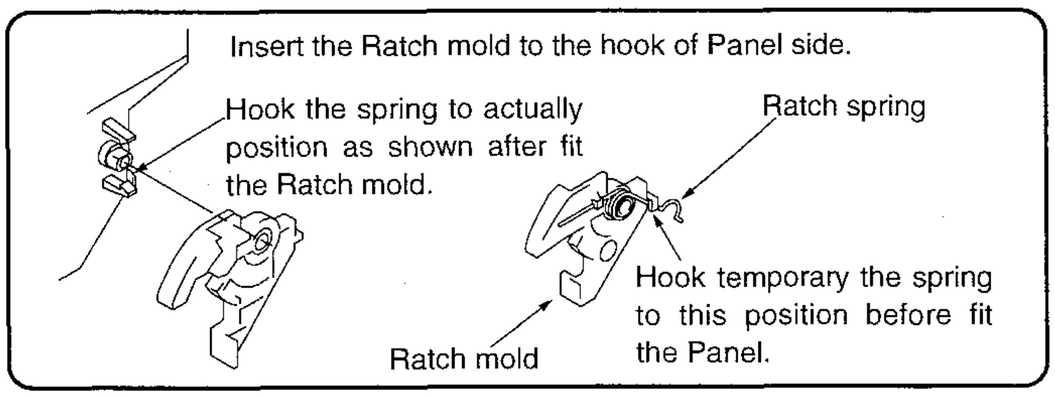
Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A800			XR-A700			
			DDXJ	DXJ/NC	DLXJ/NC	DDXJ	DXJ/NC	DLXJ/NC	
	5	Knob Spacer (BASS SYNTH)	AAK7498	AAK7498	AAK7498	Not used	Not used	Not used	
	19	VOL. Ring (BASS SYNTH)	AAK7488	AAK7488	AAK7488	Not used	Not used	Not used	
	20	Bass Button (P.BASS, BASS SYNTH)	AAD7424	AAD7424	AAD7424	Not used	Not used	Not used	
	23	EQ Window	AAK7483	AAK7483	AAK7483	Not used	Not used	Not used	
	24	EQ Filter	AAK7546	AAK7546	AAK7546	Not used	Not used	Not used	
	27	Volume Knob (WOOFER LEVEL)	AAB7134	AAB7134	AAB7134	Not used	Not used	Not used	
	28	Jog knob Assy (P.BASS JOG)	AXG7051	AXG7051	AXG7051	Not used	Not used	Not used	
	30	EQ Cover	AAK7547	AAK7547	AAK7547	Not used	Not used	Not used	

www.manualscenter.com

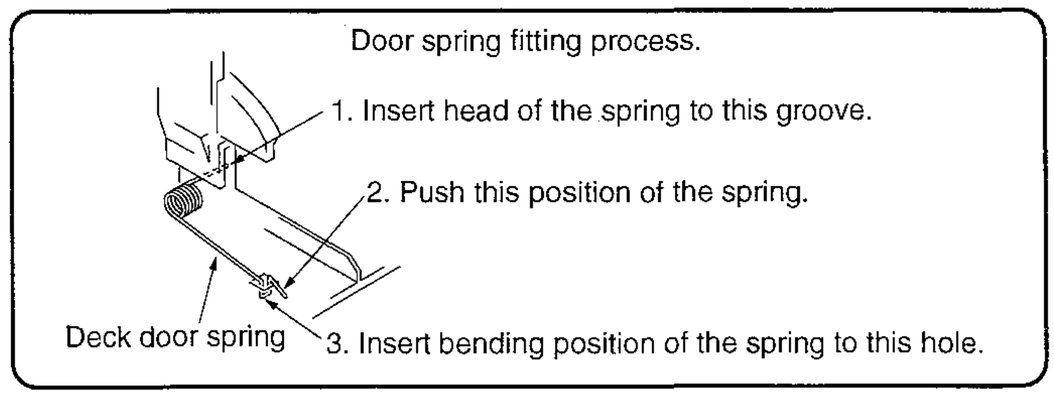
2.3 EXTERIOR (1/3) SECTION



*1


Insert the Ratch mold to the hook of Panel side.
Hook the spring to actually position as shown after fit the Ratch mold.
Ratch spring
Hook temporary the spring to this position before fit the Panel.
Ratch mold

*2


Door spring fitting process.
1. Insert head of the spring to this groove.
2. Push this position of the spring.
Deck door spring
3. Insert bending position of the spring to this hole.

(1) EXTERIOR (1/3) SECTION PARTS LIST

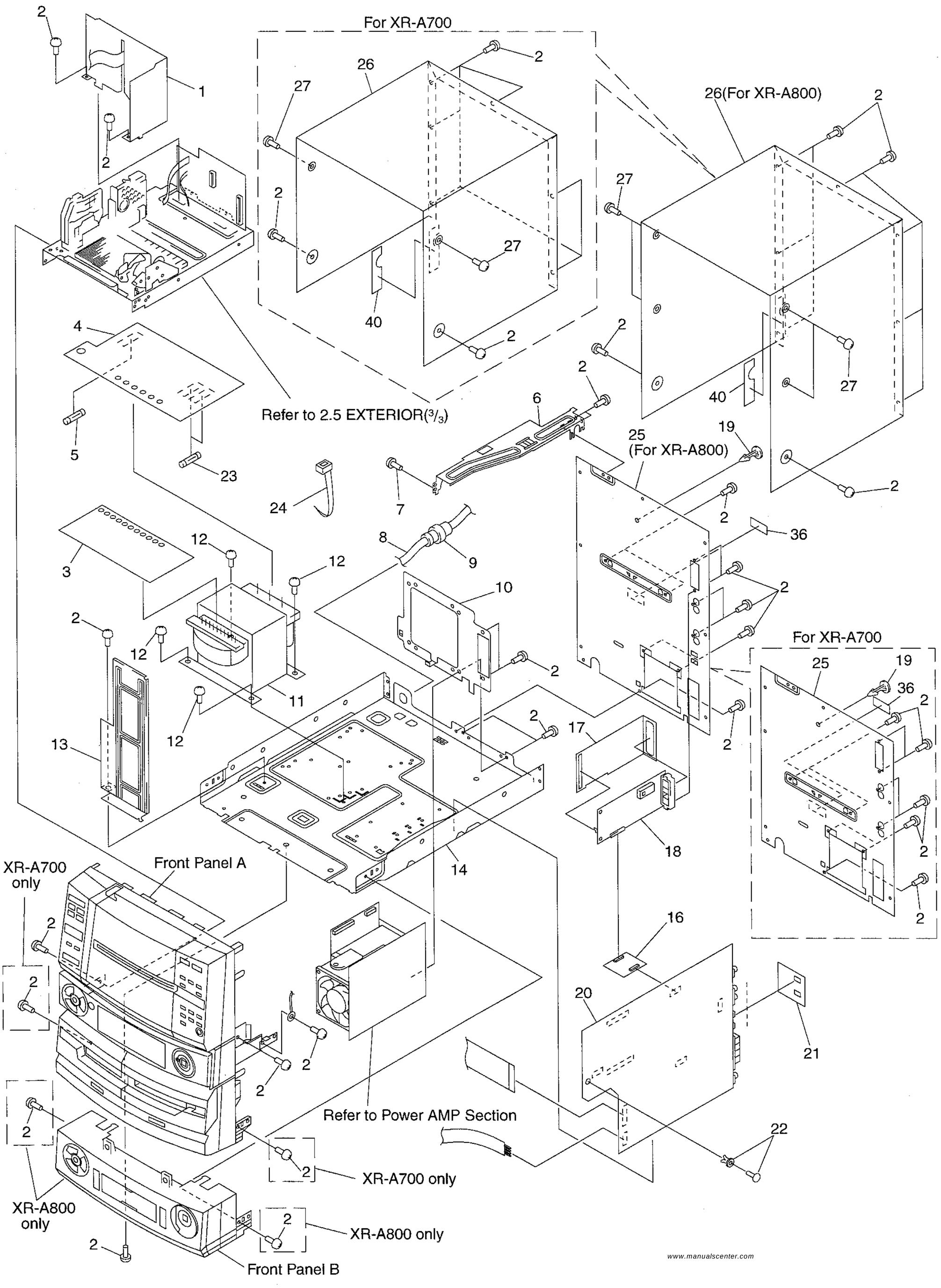
Mark	No.	Description	Part No.
	1	Front Panel A	See Contrast table (2)
	2	Front Panel B	See Contrast table (2)
	3	CD Door (PLS)	See Contrast table (2)
	4	CD Door Cover (PLS)	AAK7496
	5	Slot Cover	AAK7486
	6	Slot Sheet	AWL7028
	7	Cushion Rubber	AEB7068
	8	Sub Panel (MTL)	ANG7164
	9	Ratch Spring L	ABH7130
	10	Ratch Mold L	AMR7128
	11	Deck Door Spring L	ABH7155
	12	Damper Assy	AXA7057
	13	Ratch Mold R	AMR7129
	14	Ratch Spring R	ABH7131
	15	Deck Door Spring R	ABH7156
NSP	16	DOOR LED ASSY	AWZ8971
	17	Rubber Sheet	AEB1111
	18	SUB DISPLAY ASSY	See Contrast table (2)
	19	.....	
NSP	20	LEFT SW ASSY	AWZ8969
	21	PCB Mold	AMR7191
	22	DISPLAY ASSY	See Contrast table (2)
	23	7P F.F.C/30V	ADD7075
	24	28P F.F.C/60V	ADD7076
	25	Rink Holder (PLS)	AMR7142
	26	Barrier (PLS)	AMR7135
NSP	27	RIGHT SW ASSY	AWZ8968
NSP	28	HP ASSY	See Contrast table (2)
	29	Connector Assy 3P	RKP1683
	30	Mechanism Unit	AYM7002
	31	Earth Plate (MTL)	ANG7161
	32	Connector Assy 5P	RKP1682
	33	Mecha. Shield	See Contrast table (2)
	34	Screw	BCZ30P080FZK
	35	Screw	BPZ30P080FMC
	36	CD Door Spring	ABH7157
	37	EQ Sheet	See Contrast table (2)
	38	FFC Spacer	AEB7104
	39	Disc Rack Plate	AAK7251
	40	Caution Label	ARW7024
	41	FFC Cover	AZA7279
	42	Jack Holder	AZA7278
	43	Deck Door L	AAN7168
	44	Deck Door R	AAN7169
	45	Spring	RBK1004

(2) CONTRAST TABLE

XR-A800/DDXJ, DXJ/NC, DLXJ/NC, XR-A700/DDXJ, DXJ/NC and DLXJ/NC types are constructed the same except for the following :

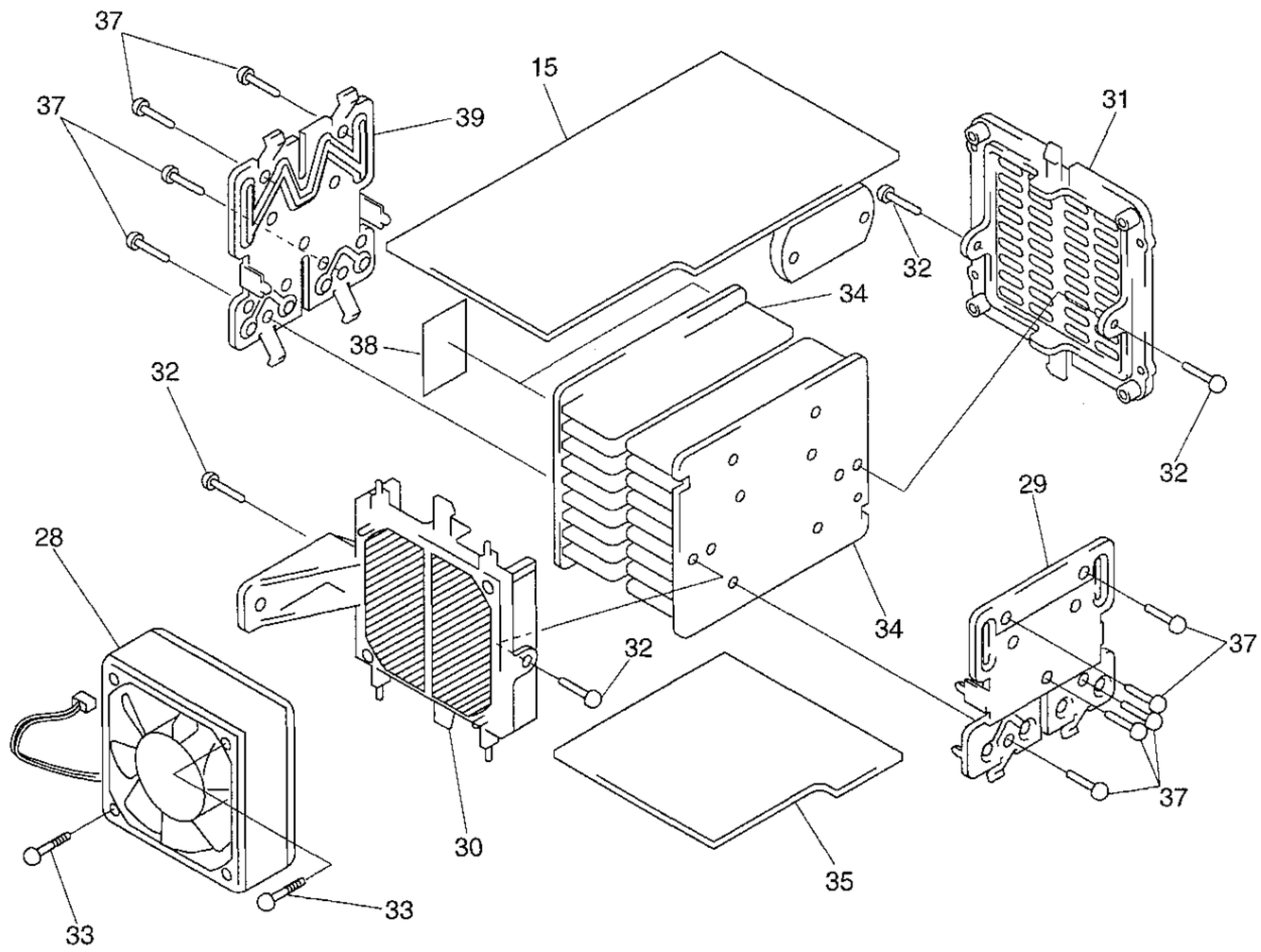
Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A800			XR-A700			
			DDXJ	DXJ/NC	DLXJ/NC	DDXJ	DXJ/NC	DLXJ/NC	
	1	Front Panel A	AMB7482	AMB7482	AMB7482	AMB7465	AMB7465	AMB7465	
	2	Front Panel B	AMB7466	AMB7466	AMB7466	Not used	Not used	Not used	
	3	CD Door	AAK7502	AAK7502	AAK7502	AAK7495	AAK7495	AAK7495	
	18	SUB DISPLAY ASSY	AWP7017	AWP7017	AWP7017	Not used	Not used	Not used	
	22	DISPLAY ASSY	AWP7015	AWP7015	AWP7015	AWP7013	AWP7013	AWP7013	
NSP	28	HP ASSY	AWZ8967	AWZ8967	AWZ8967	AWZ8965	AWZ8965	AWZ8965	
	33	Mecha. Shield	ANK7036	ANK7036	ANK7036	Not used	Not used	Not used	
	37	EQ Sheet	AAK7548	AAK7548	AAK7548	Not used	Not used	Not used	

2.4 EXTERIOR (2/3) AND POWER AMP SECTION



www.manualscenter.com

● POWER AMP SECTION



www.manualscenter.com

(1) EXTERIOR (2/3) AND POWER AMP SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	CD Cover (MTL)	ANG7165
	2	Screw	BBZ30P080FZK
NSP	3	SECONDARY ASSY	See Contrast table (2)
NSP	4	PRIMARY ASSY	See Contrast table (2)
⚠	5	Fuse (T4A/250V, FU1)	AEK1060
	6	Home Lock Stay (MTL)	AND7030
	7	Screw	BPZ30P120FZK
⚠	8	AC Power Cord	See Contrast table (2)
	9	Strain Rerief	CM-22B
	10	AF Hold Plate	ANG7160
⚠	11	Power Transformer (T1)	See Contrast table (2)
	12	Screw	BBZ40P080FZK
	13	Front Stay (MTL)	See Contrast table (2)
NSP	14	Chassis (MTL)	ANA7034
	15	AMP ASSY	See Contrast table (2)
NSP	16	TX CONNECT ASSY	AWZ8972
	17	TX Cover	AAK7501
	18	FM/AM TUNER MODULE	AXQ7061
	19	Locking Card Spacer	VEC1596
	20	AF ASSY	See Contrast table (2)

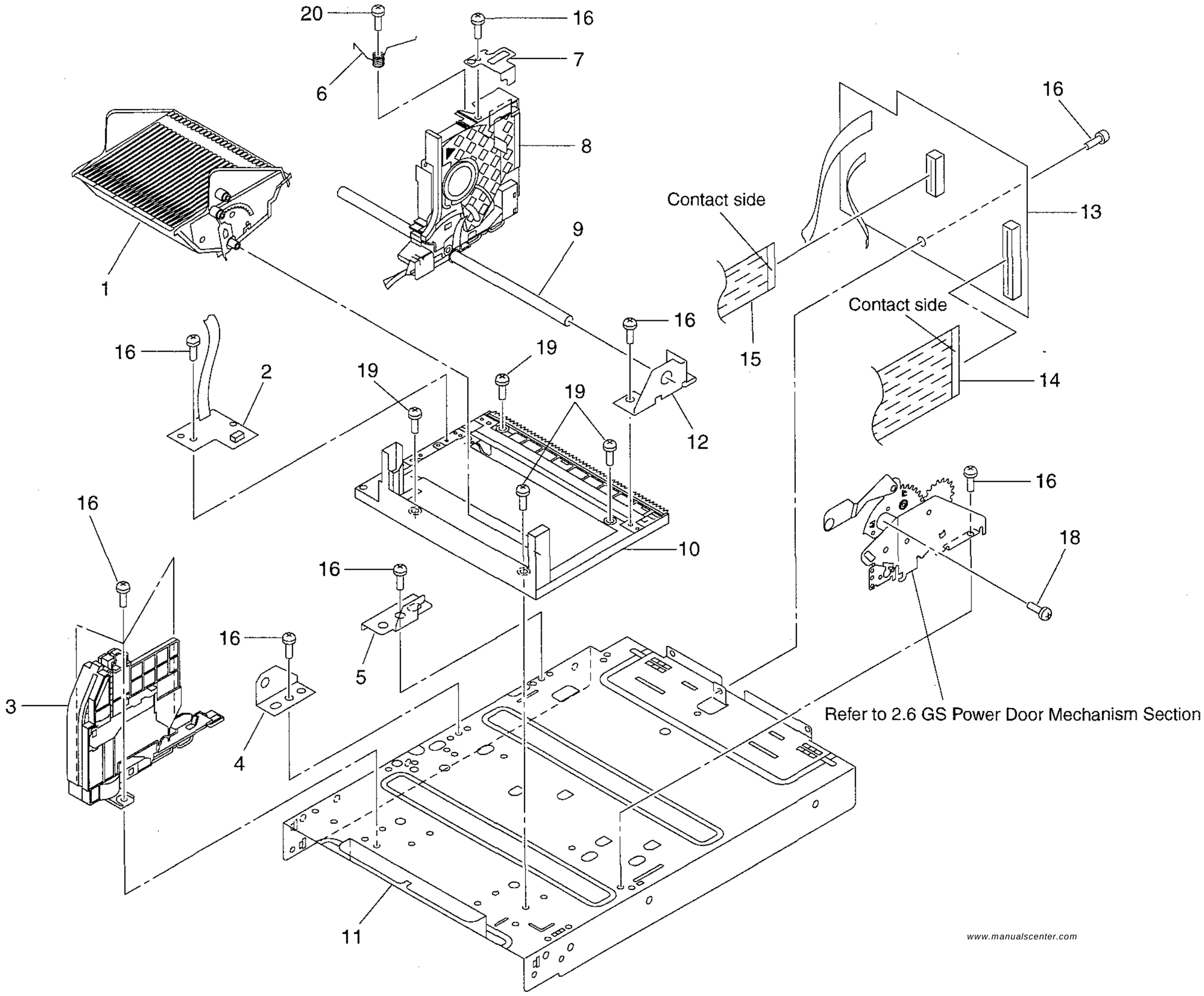
Mark	No.	Description	Part No.
	21	Tweeter Cover	See Contrast table (2)
	22	Push Rivet	AEC7069
⚠	23	Fuse (T2A/250V, FU2, FU3)	AEK1057
	24	Binder	ZCA-SKB90BK
	25	Rear Panel	See Contrast table (2)
	26	Bonnet Case	See Contrast table (2)
	27	Screw	VPZ30P100FZK
	28	DC Fan Motor	AXM7003
	29	Power Pac Holder	ANG7109
	30	Mold A	AMR7005
	31	Mold B	AMR7006
	32	Screw	ABA1021
	33	Screw	BPZ30P350FZK
	34	Heat Sink	ANH7058
	35	POWER SUPPLY ASSY	See Contrast table (2)
	36	Caution Label	See Contrast table (2)
	37	Screw	BBZ30P180FMC
	38	Mica Wafer	AEE7018
	39	Holder	ANG7009
	40	Resistor Cover	AAK7558

(2) CONTRAST TABLE

XR-A800/DDXJ, DXJ/NC, DLXJ/NC, XR-A700/DDXJ, DXJ/NC and DLXJ/NC types are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A800			XR-A700			
			DDXJ	DXJ/NC	DLXJ/NC	DDXJ	DXJ/NC	DLXJ/NC	
NSP	3	SECONDARY ASSY	AWZ8956	AWZ8956	AWZ8956	AWZ8953	AWZ8953	AWZ8953	
NSP	4	PRIMARY ASSY	AWZ8981	AWZ8981	AWZ8981	AWZ8977	AWZ8977	AWZ8977	
⚠	8	AC Power Cord	ADG1157	PDG1058	PDG1043	ADG1157	PDG1058	PDG1043	
⚠	11	Power Transformer (AC110-127V/220-230V/240V)	ATS7196	ATS7196	ATS7196	ATS7199	ATS7199	ATS7199	
	13	Front Stay	AND7029	AND7029	AND7029	AND7028	AND7028	AND7028	
	15	AMP ASSY	AWZ8944	AWZ8944	AWZ8944	AWZ8941	AWZ8941	AWZ8941	
	20	AF ASSY	AWZ8939	AWZ8939	AWZ8939	AWZ8937	AWZ8937	AWZ8937	
	21	Tweeter Cover	AAK7520	AAK7520	AAK7520	Not used	Not used	Not used	
	25	Rear Panel	ANC7604	ANC7612	ANC7613	ANC7603	ANC7606	ANC7607	
	26	Boonet Case	ANE7178	ANE7178	ANE7178	ANE7177	ANE7177	ANE7177	
	35	POWER SUPPLY ASSY	AWZ8950	AWZ8950	AWZ8950	AWZ8947	AWZ8947	AWZ8947	
	36	Caution Label	Not used	Not used	PRW1018	Not used	Not used	PRW1018	

2.5 EXTERIOR (3/3) SECTION



www.manualscenter.com

(1) EXTERIOR (3/3) SECTION PARTS LIST

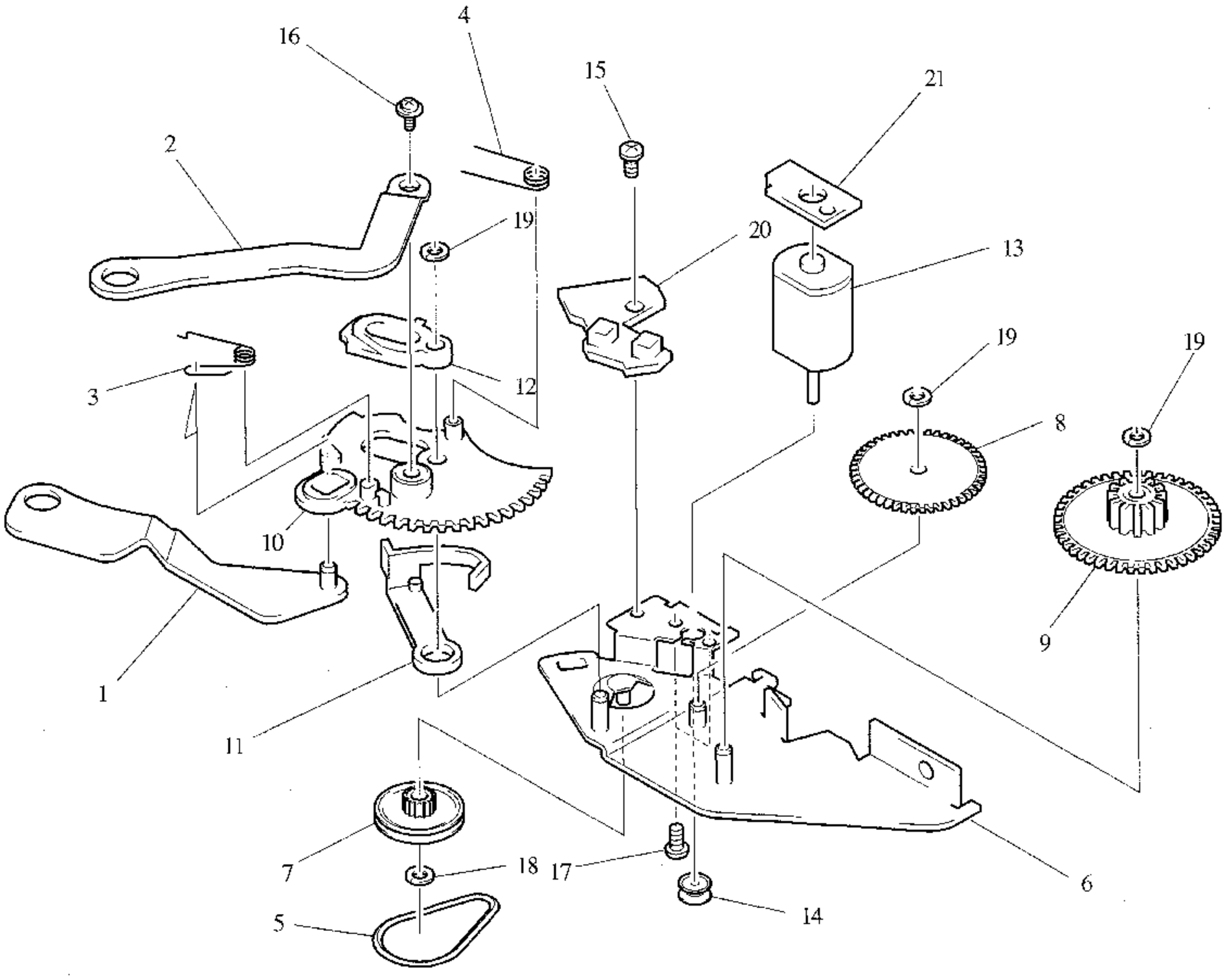
Mark	No.	Description	Part No.
	1	Disc Rack	ANW7069
NSP	2	HOME SW ASSY	AWZ8975
NSP	3	GS Slot-In Mechanism Assy	AXA7044
	4	Shaft Holder GS	ANB7094
	5	Lock Angle 2 (MTL)	ANG7117
	6	Earth Spring	ABH7159
	7	Assist Angle 2	ANB7065
NSP	8	GS Mechanism Assy	AXA7047
	9	Guide Shaft S	ALA7008
	10	Rack Base SP	ANW7118
	11	Sub Chassis	ANA7057
	12	Shaft Holder	ANB7021
	13	GM-CD ASSY	See Contrast table (2)
	14	35P F.F.C/30V	ADD7050
	15	22P F.F.C/30V	ADD7016
	16	Screw	BBZ30P080FZK
	17	.....	
	18	Screw	IPZ30P080FMC
	19	Screw C	PBA1106
	20	Screw	IPZ20P080FMC

(2) CONTRAST TABLE

XR-A800/DDXJ, DXJ/NC, DLXJ/NC, XR-A700/DDXJ, DXJ/NC and DLXJ/NC types are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.						Remarks
			XR-A800			XR-A700			
			DDXJ	DXJ/NC	DLXJ/NC	DDXJ	DXJ/NC	DLXJ/NC	
	13	GM-CD ASSY	AWZ8962	AWZ8962	AWZ8962	AWZ8959	AWZ8959	AWZ8959	

2.6 GS POWER DOOR MECHANISM SECTION

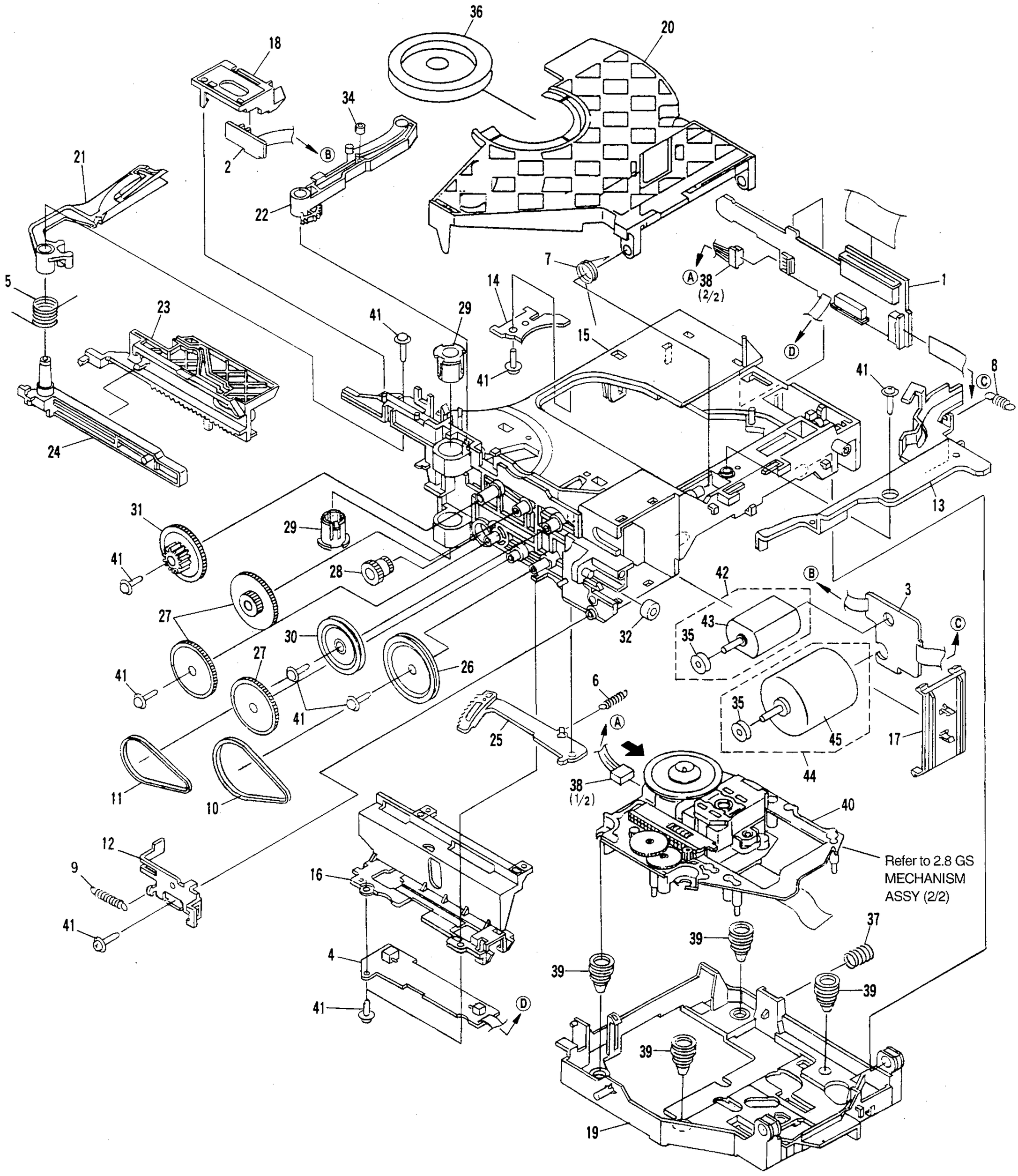


www.manualscenter.com

GS POWER DOOR MECHANISM SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Link A (MTL)	ANG7163
	2	Link B (MTL)	ANG7115
	3	Door Spring	ABH7144
	4	Rack Spring	ABH7145
	5	Door Belt	AEB7067
	6	Base Plate (SECC)	ANB7081
	7	Gear Pulley (POM)	ANW7103
	8	Gear B (POM)	ANW7104
	9	Gear A (POM)	ANW7105
	10	Drive Gear (ABS/PC)	ANW7115
	11	SW Lever (ABS)	ANW7107
	12	Push Plate (ABS)	ANW7108
NSP	13	Motor	AXM7010
	14	Motor Pulley (POM)	PNW1634
	15	Screw	BBZ20P060FMC
	16	Screw	IPZ20P080FMC
	17	Screw	PMA20P030FMC
	18	Washer	WT26D060D025
	19	Washer	WT36D072D025
NSP	20	Door SW Assy	AWZ8970
NSP	21	Door Motor Assy	AWZ8973

2.7 GS MECHANISM ASSY (1/2)



www.manualscenter.com

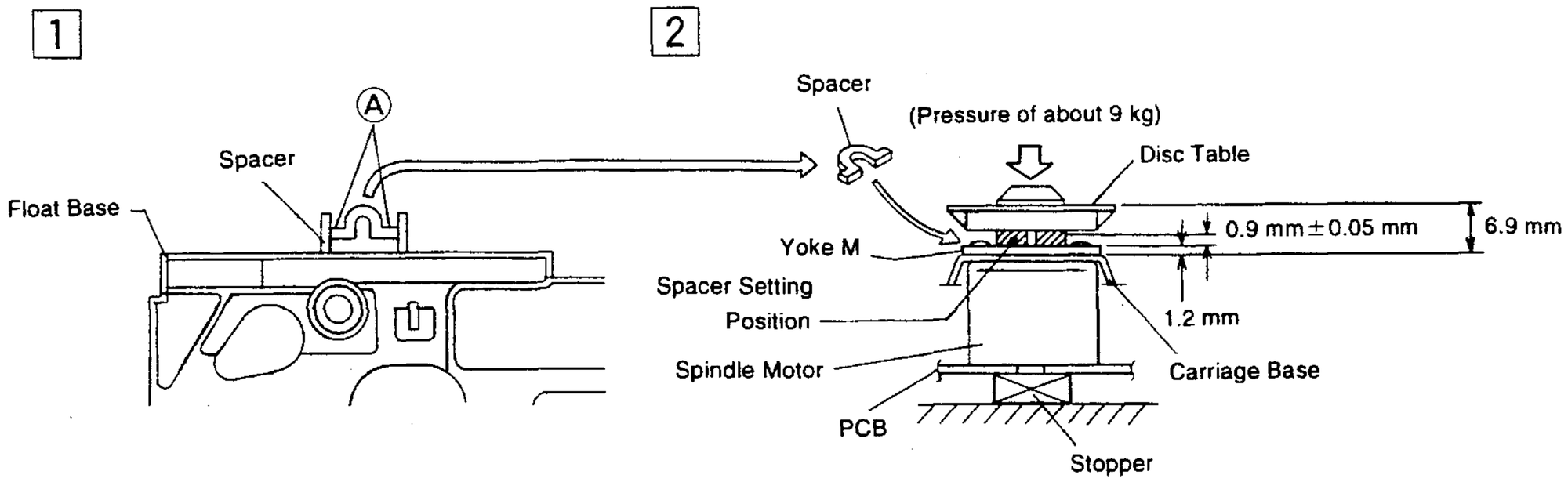
GS MECHANISM ASSY (1/2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	MECHA PCB ASSY	AWZ8802
NSP	2	SENSOR PCB ASSY	AWZ7836
NSP	3	MOTOR PCB ASSY	AWZ7837
NSP	4	SW PCB ASSY	AWZ7838
	5	ARM A SPRING 2	ABH7124
	6	GEAR PLATE SPRING	ABH7051
	7	CLAMP SPRING	ABH7107
	8	LOCK LEVER SPRING B	ABH7142
	9	LOCK ANGLE SPRING 2	ABH7123
	10	LOADING BELT	AEB7029
	11	BELT	AEB7030
NSP	12	LOCK ANGLE	ANB7027
NSP	13	LOCK LEVER	ANB7038
NSP	14	SERVO STOPPER S	ANB7047
	15	LOADING BASE	ANW7086
	16	CAM COVER	ANW7052
	17	MOTOR HOLDER	ANW7053
	18	SENSOR HOLDER	ANW7054
	19	FLOAT BASE	ANW7080
	20	CLAMPER HOLDER	ANW7117
	21	ARM (A)	ANW7057
	22	ARM (B)	ANW7058
	23	DRIVE PLATE	ANW7059
	24	ARM PLATE	ANW7060
	25	GEAR PLATE	ANW7082
	26	GEAR PULLEY (B)	ANW7062
	27	GEAR A	ANW7063
	28	DRIVE GEAR	ANW7064
	29	BEARING	ANW7065
	30	GEAR PULLEY A	ANW7066
	31	SELECT GEAR	ANW7067
	32	ROLLER	ANW7068
	33	.....	
	34	ROLLER B	ANW7075
	35	MOTOR PULLEY	PNW1634
	36	CLAMPER	PNW2692
	37	FLOAT SPRING	ABH7049
	38	CONNECTOR ASSY (4P)	ADE7006
	39	FLOAT RUBBER	AEB7028
NSP	40	SERVO MECHANISM ASSY GM	AXA7028
	41	SCREW	IPZ20P080FMC
	42	MOTOR ASSY (SELECT)	AEA7005
NSP	43	MOTOR	PXM1002
	44	MOTOR ASSY	AEA7006
	45	LOADING MOTOR	VXM1034
		FROIL (for service)	GYA1001
		HA NARL (for service)	GEM1016

● How to install the disc table

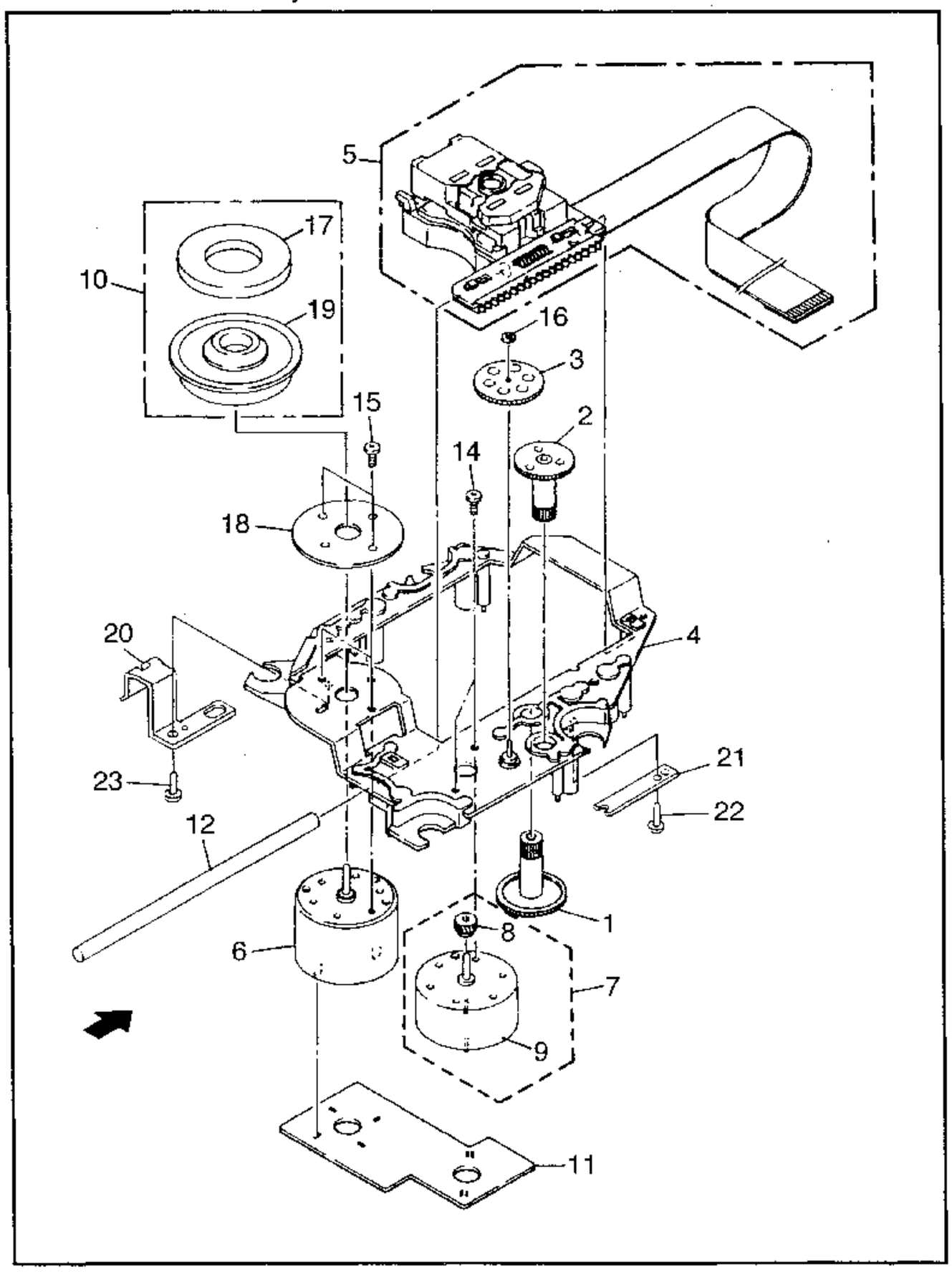
1 Use nipper or other tool to cut the two sections marked Ⓐ figure 1.
Then remove the spacer.

2 While supporting the spindle motor shaft with the stopper, put spacer on top of the yoke M, and stick the disc table on top (takes about 9kg pressure). Take off the spacer.



2.8 GS MECHANISM ASSY (2/2)

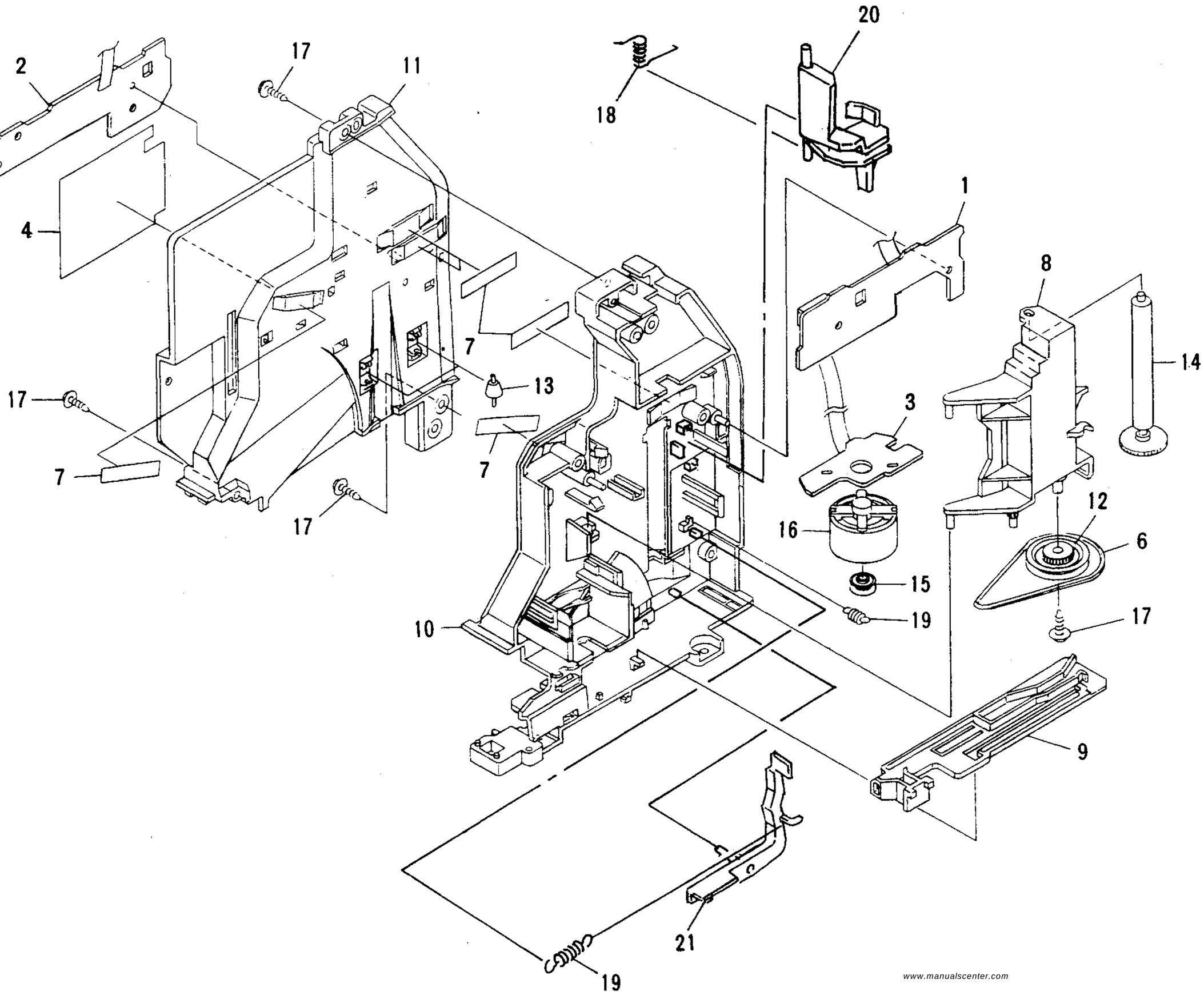
Servo Mechanism Assy GM



GS MECHANISM ASSY (2/2) PARTS LIST

Mark	No.	Description	Part No.
	1	GEAR 1	PNW2052
	2	GEAR 2	PNW2053
	3	GEAR 3	PNW2054
	4	CARRIAGE BASE	PNW2699
	5	PICKUP ASSY	AEA7004
	6	D.C. MOTOR ASSY (SPDL)	PEA1235
	7	CARRIAGE DC MOTOR ASSY	PEA1246
	8	PINION GEAR	PNW2055
NSP	9	CARRIAGE DC MOTOR/0.3W	PXM1027
	10	DISC TABLE ASSY	PEA1314
	11	MECHANISM BOARD ASSY	PWX1192
	12	GUIDE BAR	PLA1094
	13	.....	
	14	SCREW	JFZ17P025FZK
	15	SCREW	JFZ20P040FMC
	16	WASHER	WT12D032D025
	17	CLAMP MAGNET	PMF1014
	18	YOKE M	PNB1312
NSP	19	DISC TABLE	PNW2410
NSP	20	FLOAT ANGLE	ANB7020
	21	GEAR STOPPER	PNB1303
	22	SCREW	BPZ20P060FMC
	23	SCREW	BPZ26P100FMC

2.9 GS SLOT-IN MECHANISM ASSY



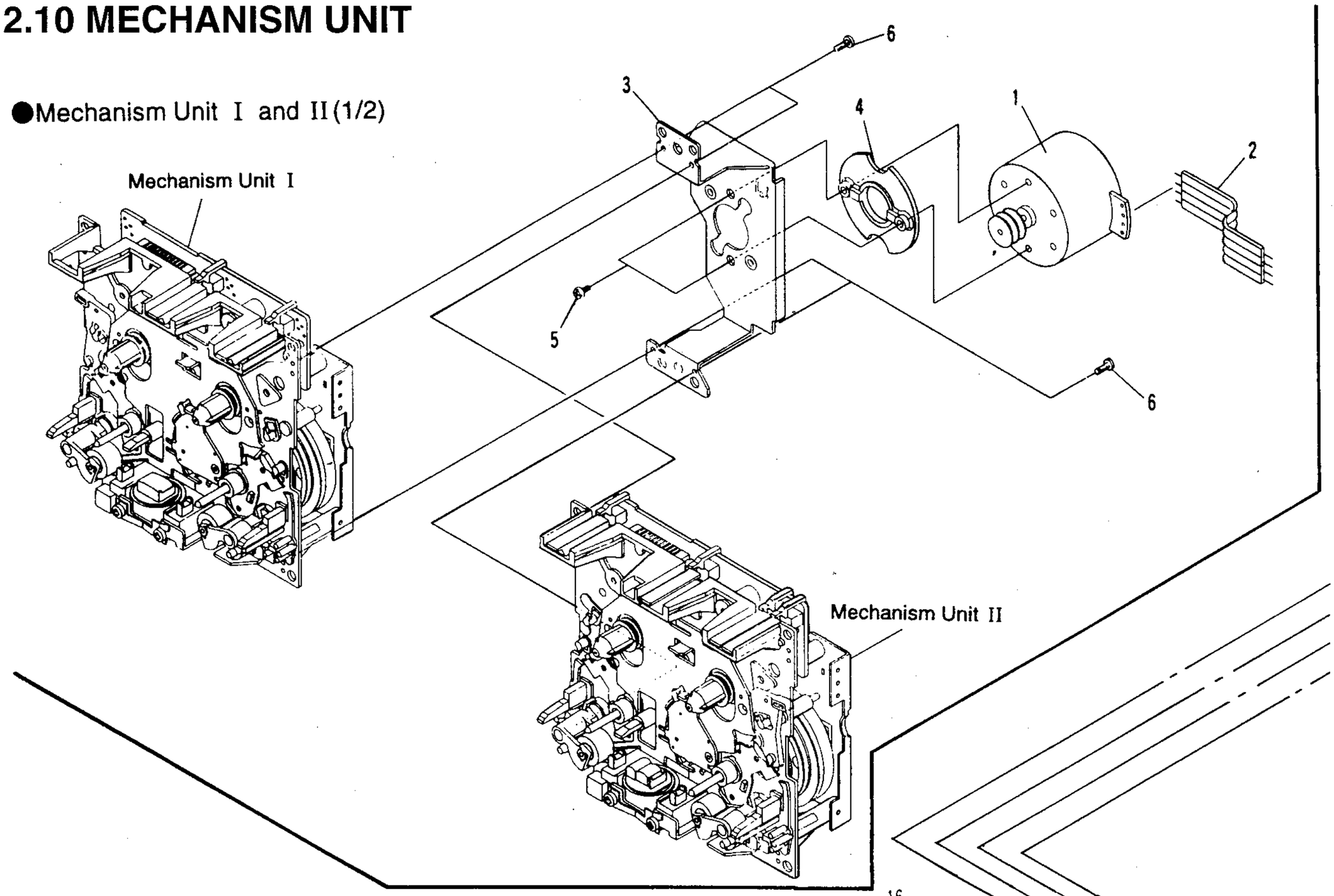
www.manualscenter.com

GS SLOT-IN MECHANISM ASSY PARTS LIST

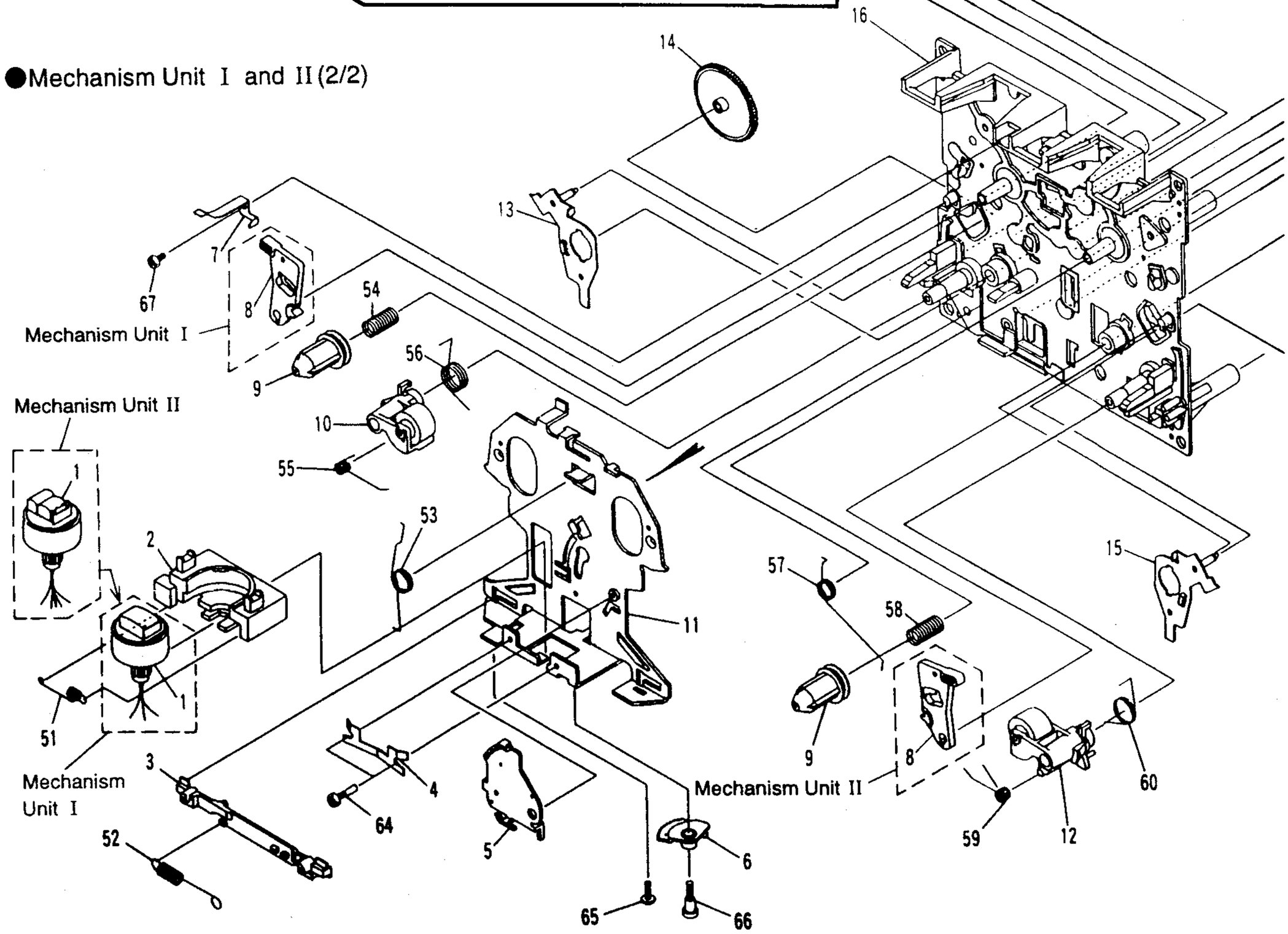
Mark	No.	Description	Part No.
NSP	1	Sensor Board Assy	AWZ8560
NSP	2	LED Board Assy	AWZ8561
NSP	3	Motor Board Assy	AWZ8744
	4	Blind	AAK7219
	5	.....	
	6	Belt	AEB7033
	7	Ecsaine	AED7004
	8	Gear Holder	ANW7110
	9	Slide Plate	ANW7048
	10	Case (M)	ANW7101
	11	Case (S)	ANW7102
	12	Gear Pulley A	ANW7066
	13	Guide Roller	ANW7076
	14	Roller Assy	AXA7029
	15	Motor Pulley	PNW1634
	16	DC Motor/0.75W	PXM1010
	17	Screw	IPZ20P080FMC
	18	Shutter Spring	ABH7136
	19	P.B Spring	ABH7137
	20	Shutter	ANW7099
	21	Lever	ANW7100

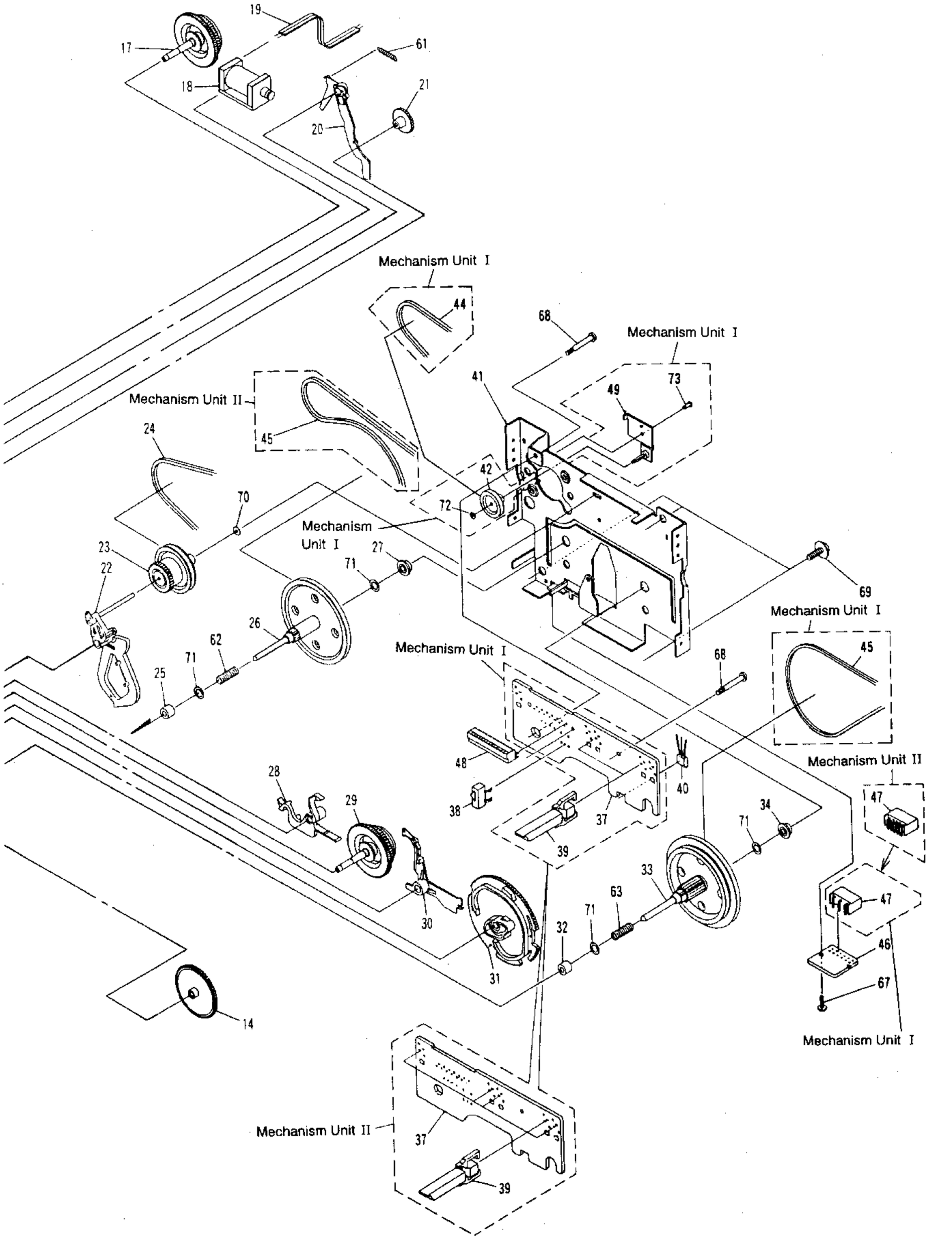
2.10 MECHANISM UNIT

●Mechanism Unit I and II (1/2)



●Mechanism Unit I and II (2/2)




19
17
61
18
21
20
Mechanism Unit I
44
68
Mechanism Unit I
Mechanism Unit II
41
49
73
45
42
24
72
70
Mechanism
Unit I
23
27
22
71
69
Mechanism Unit I
26
62
Mechanism Unit I
71
25
68
45
48
Mechanism Unit II
28
40
38
37
34
29
71
47
39
33
63
30
32
47
46
31
67
14
Mechanism Unit I
Mechanism Unit II
37
39

MECHANISM UNIT PARTS LIST

■ Mechanism unit I and II (1/2)

Mark	No.	Description	Part No.
	1	ASSY MOTOR	RXM1080
NSP	2	JUMPER WIRE	RDD1012
	3	BRACKET MOTOR	RNE1830
	4	SPACER	RNK1822
	5	SCREW	RBA1100
	6	SCREW	PCZ20P040FMC

■ Mechanism unit I and II (2/2)

Mark	No.	Description	Part No.
	1	ASSY HOLDER HEAD (*1)	RXA1400
	1	ASSY HOLDER HEAD (*2)	RXA1664
	2	FRAME HEAD	RNK1715
	3	LEVER HEAD	RNK1716
	4	SPRING AZIMUTH	RBK1006
	5	ASSY ARM ASSIST	RXA1401
	6	GEAR ARM HEAD	RNK1717
	7	SPRING CASSETTE	RBK1039
	8	EJECT LOCK	RNK1718
	9	CAP REEL	RNK1719
	10	ASSY PINCH ARM L	RXA1403
	11	CHASSIS HEAD	RNE1437
	12	ASSY PINCH ARM R	RXA1404
	13	ARM PLAY L	RNK1866
	14	GEAR PLAY	RNK1867
	15	ARM PLAY R	RNK1868
	16	CHASSIS OS	RXA1411
	17	ASSY SUB REEL L	RXA1407
	18	SOLENOID	RXP1020
	19	WIRE	RDC1006
	20	ARM RVS	RNK1721
	21	GEAR FF	RNK1723
	22	ASSY ARM FR	RXA1412
	23	ASSY PULLEY FR	RXA1413
	24	BELT FR	REB1292
	25	METAL	RNG1048
	26	ASSY FLYWHEEL L	RXA1690
	27	METAL	RNG1005
	28	ARM BRAKE	RNK1724
	29	ASSY SUB REEL R	RXA1408
	30	ARM TRIGER	RNK1722
	31	GEAR CAM	RNK1725
	32	METAL	RNG1049
	33	ASSY FLYWHEEL R	RXA1691
	34	METAL	RNG1004
	35	.....	
	36	.....	
	37	P. C. BOARD	RNP1610
	38	SWITCH MODE	RSN1020
	39	SWITCH (LEAF)	RSN1019
	40	HALL IC	DN6851A
	41	BRACKET FW (*1)	RNE1854
	41	BRACKET FW (*2)	RNE1438
	42	PULLEY (*1 only)	RNK2132
	43	.....	
	44	BELT FW (*1 only)	REB1291
	45	BELT MAIN (* 1)	REB1290
	45	BELT MAIN (* 2)	REB1289
	46	P. C. BOARD	RNP1348
	47	HOUSING (*1)	RKP1396
	47	HOUSING (*2)	RKP1397
	48	CONNECTOR (*1)	RKP1713
	48	CONNECTOR (*2)	RKP1714
	49	ASSY HOLDER (*1 only)	RXA1689
	50	.....	
	51	SPRING	RBH1282
	52	SPRING	RBH1283
	53	SPRING	RBH1284
	54	SPRING	RBH1286
	55	SPRING	RBH1288
	56	SPRING	RBH1291
	57	SPRING	RBH1285
	58	SPRING	RBH1287
	59	SPRING	RBH1289
	60	SPRING	RBH1290
	61	SPRING	RBH1292
	62	FWP SP (SPRING)	RBH1061
	63	SPRING	RBH1325
	64	SCREW (For AZIMUTH)	RBA1023
	65	SCREW	RBA1027
	66	SCREW	RBA1030
	67	SCREW	PCZ20P040FMC
	68	SCREW	RBA1093
	69	SCREW	RBA1094
	70	WASHER	RBF1046
	71	WASHER	WA26D047D013
	72	WASHER (*1 only)	WT13D030D025
	73	SCREW (*1 only)	RBA1118

Note) **1: Mechanism Unit I*
**2: Mechanism Unit II*

www.manualscenter.com

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM

M DOOR MOTOR ASSY (AWZ8973)

K HOME SW ASSY (AWZ8975)

GS MECHANISM ASSY (AXA7047)

B MECHANISM BOARD ASSY (PWX1192)
C SENSOR PCB ASSY (AWZ7836)
D MOTOR PCB ASSY (AWZ7837)
E SW PCB ASSY (AWZ7838)
F MECHA PCB ASSY (AWZ8802)

GS SLOT-IN MECHANISM ASSY (AXA7044)

G SENSOR BOARD ASSY(AWZ8560)
H LED BOARD ASSY(AWZ8561)
I MOTOR BOARD ASSY(AWZ8744)

L DOOR SW ASSY (AWZ8970)

J GM-CD ASSY (AWZ8962 : XR-A800)
(AWZ8959 : XR-A700)

DC FAM MOTOR AXM7003

Q POWER SUPPLY ASSY (AWZ8950 : XR-A800) (AWZ8947 : XR-A700)

N (**N** 1/2, **N** 2/2) AF ASSY (AWZ8939 : XR-A800) (AWZ8937 : XR-A700)

R SECONDARY ASSY (AWZ8956 : XR-A800) (AWZ8953 : XR-A700)

O TX CONNECT ASSY (AWZ8972)

P AMP ASSY (AWZ8944 : XR-A800) (AWZ8941 : XR-A700)

A FM/AM TUNER MODULE (AXQ7061)

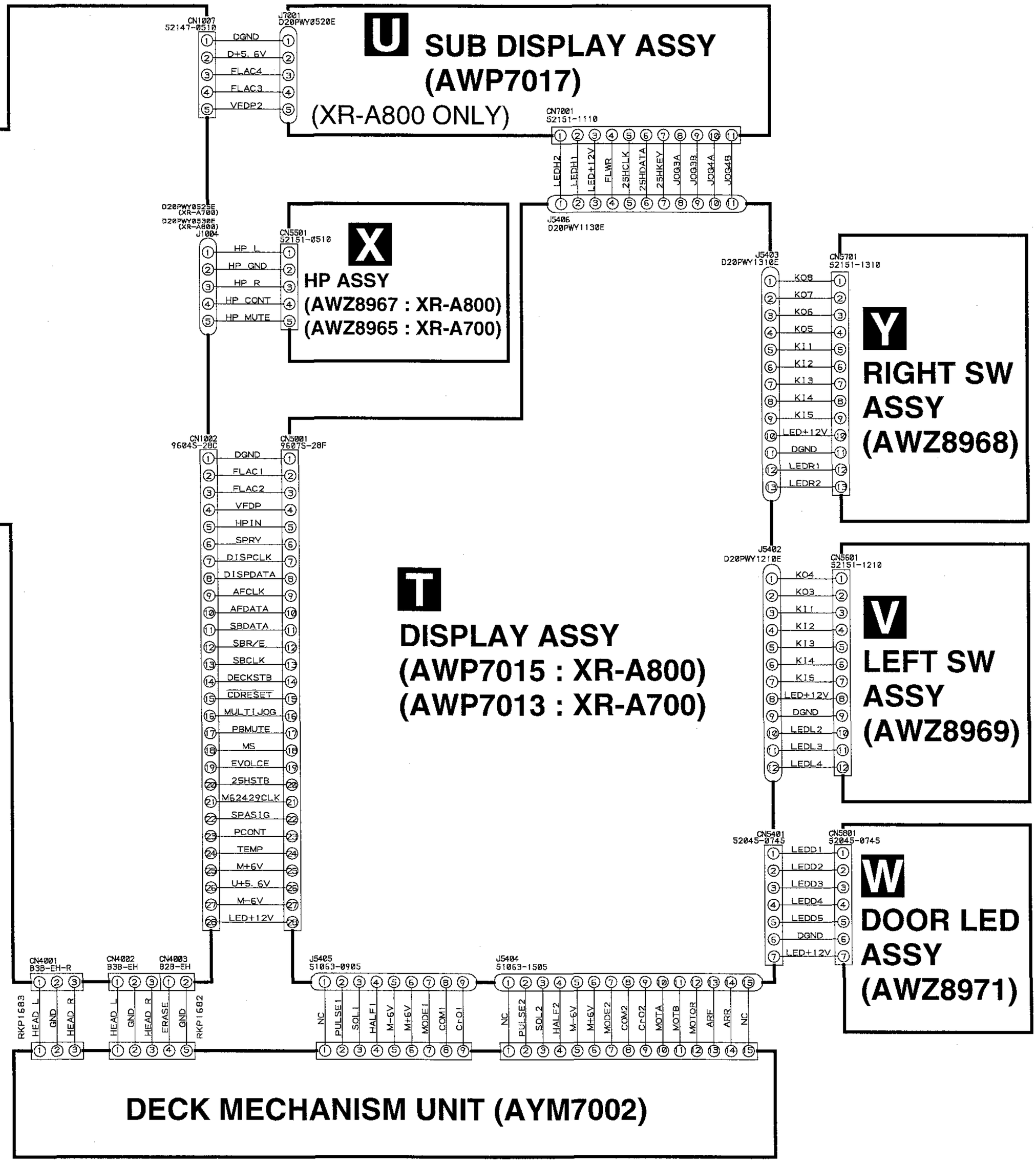
S PRIMARY ASSY (AWZ8981 : XR-A800) (AWZ8977 : XR-A700)

T1 POWER TRANSFORMER
ATS7196 : XR-A800
ATS7199 : XR-A700

AC POWER CORD
ADG1157 : DDXJ type
PDG1058 : DXJ/NC type
PDG1043 : DLXJ/NC type

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

www.manualscenter.com



3.2 FM/AM TUNER MODULE

A FM/AM TUNER MODULE (AXQ7061)

SIGNAL ROUTE

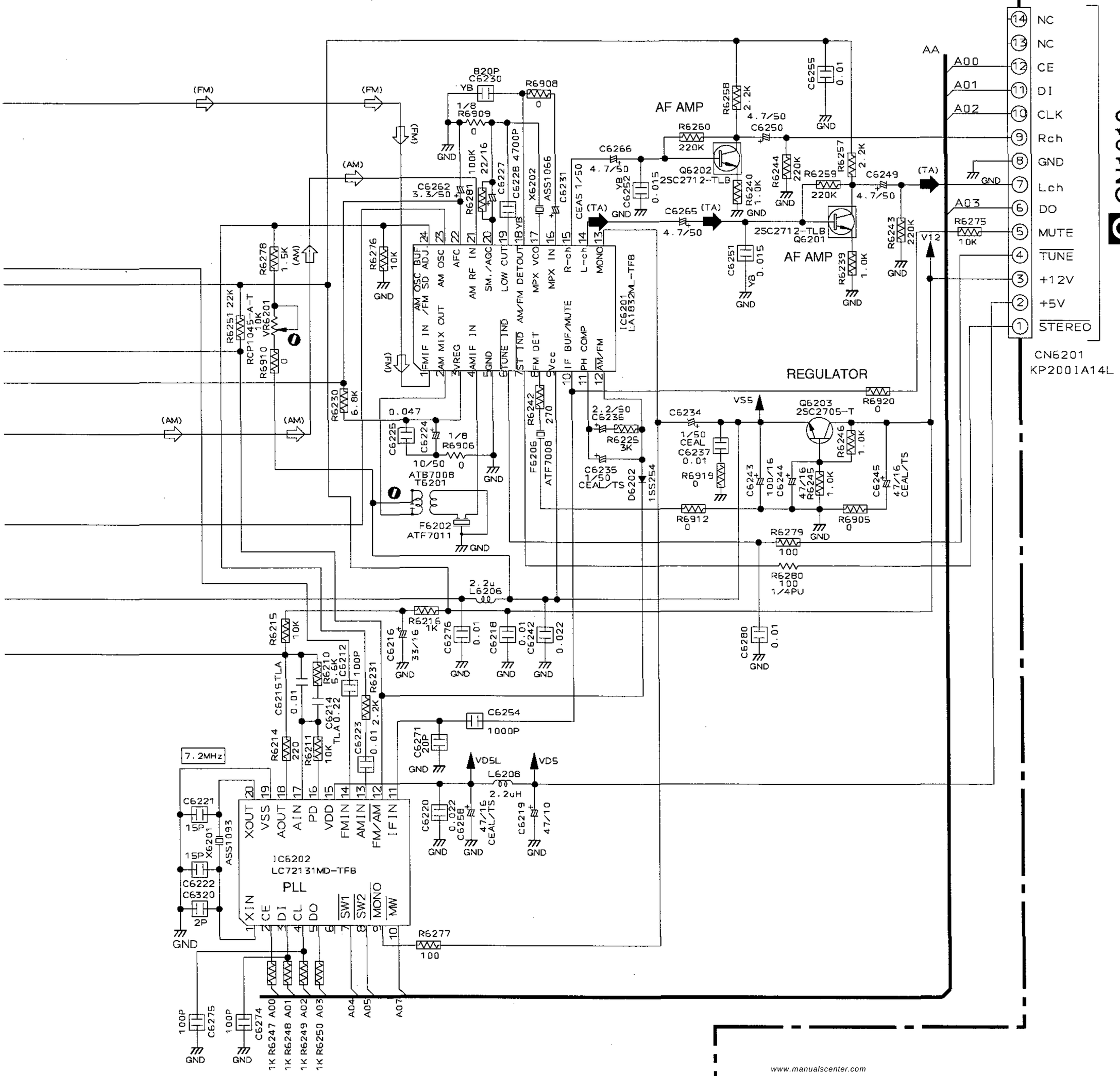
(AM) ⇨ : AM SIGNAL ROUTE

(FM) ⇨ : FM SIGNAL ROUTE

(TA) ➡ : TUNER AUDIO SIGNAL ROUTE

Notes

1. RESISTORS
   Indicated in Ω, 1/10W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P:PF.
3. DIODES
   No mark diode is 1SS254.



www.manualscenter.com

3.3 GS MECHANISM ASSY AND GS SLOT-IN MECHANISM ASSY

GS MECHANISM ASSY (AXA7047)

PICKUP ASSY (AEA7004)

HOLOGRAM LASER UNIT

TRACKING COIL: OUTSIDE INSIDE

FOCUS COIL: FAR NEAR

C110 0.01
R116 68
R107 68
R106 68
R105 100k
R125 0
C104 100/6.3
Q101 2SB1189
LAND SHORT
R104 270
R126 0
LD POWER
VR101 2.2k
C107 0.1/25
R122 0
C105 0.01
R112 1M
R113 1M
C106 220p
R120 0
R114 39k
R121 0
R115 39k
R124 0
C109 0.1/25
R111 560k
C108 0.1/25
R101 36k
R109 12k
VR102 22k
R110 22k
TR.BAL

IC101 M51593FP

1	LD	Vcc	20
2	MD	LD ON	19
3	PD1	RF1	18
4	PD2	RF0	17
5	Vss	FE	16
6	F	FE BIAS	15
7	E	TE	14
8	VR	E1	13
9	VC	E0	12
10	NC	NC	11

CN102

1	ACTF−
2	ACTF+
3	ACTT−
4	ACTT+
5	GND
6	V+5
7	VC
8	LDON
9	FE
10	TE
11	NC
12	RF

MD LD VCC D1 D2 D3 D4 D5 LD GND

PRE−AMP BOARD ASSY

B MECHANISM BOARD ASSY (PWX1192)

S610 DSG1016
INSIDE SW

SPDL MTR PEA1235
CARRIAGE MTR PEA1246

1	INSD
2	SPDR
3	CADR
4	GND

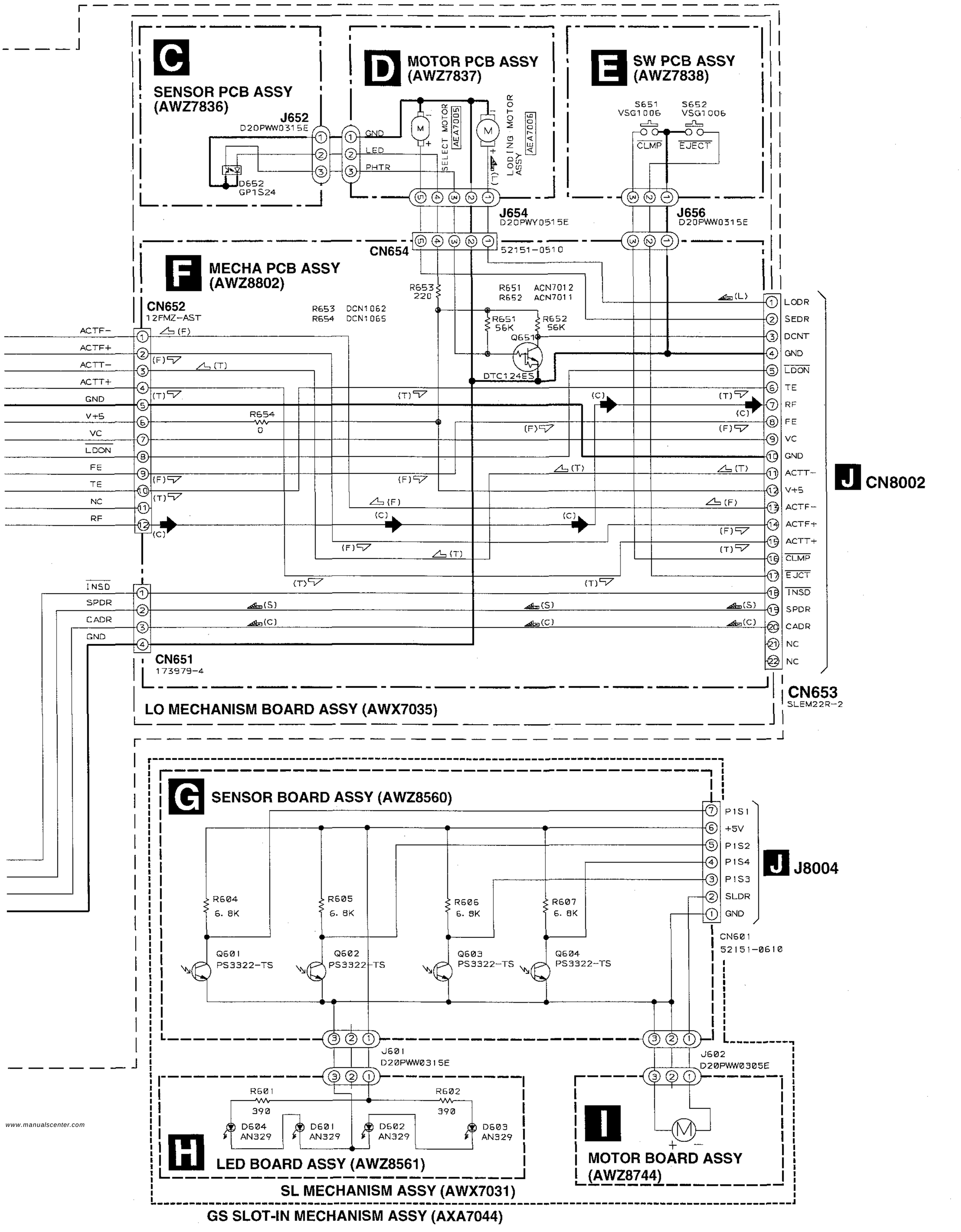
CN610
173979-4

SERVO MECHANISM ASSY GM (AXA7028)

www.manualscenter.com

SIGNAL ROUTE

(C): CD AUDIO SIGNAL ROUTE
(F): FOCUS SERVO LOOP LINE
(T): TRACKING SERVO LOOP LINE
(L): LOADING MOTOR ROUTE
(S): SPINDLE MOTOR ROUTE
(C): CARRIAGE MOTOR ROUTE



www.manualscenter.com

3.4 GM-CD ASSY, HOME SW ASSY, DOOR SW ASSY AND DOOR MOTOR ASSY

J GM-CD ASSY (AWZ8962 : XR-A800)
(AWZ8959 : XR-A700)

If the parts are not identified, the followings are used.

SIGNAL ROUTE
(C) and CD(C): CD AUDIO SIGNAL
(F): FOCUS SERVO LOOP LINE
(T): TRACKING SERVO LOOP LINE
(L): LOADING MOTOR ROUTE
(S): SPINDLE MOTOR ROUTE
(C): CARRIAGE MOTOR ROUTE

Note : For the waveforms,refer to page 40.

IC8301
CXD2519Q
(DECODER+DAC+LPF)

IC8001
PD4859A
(CD, TX CONTROL)

SYSTEM CONTROL

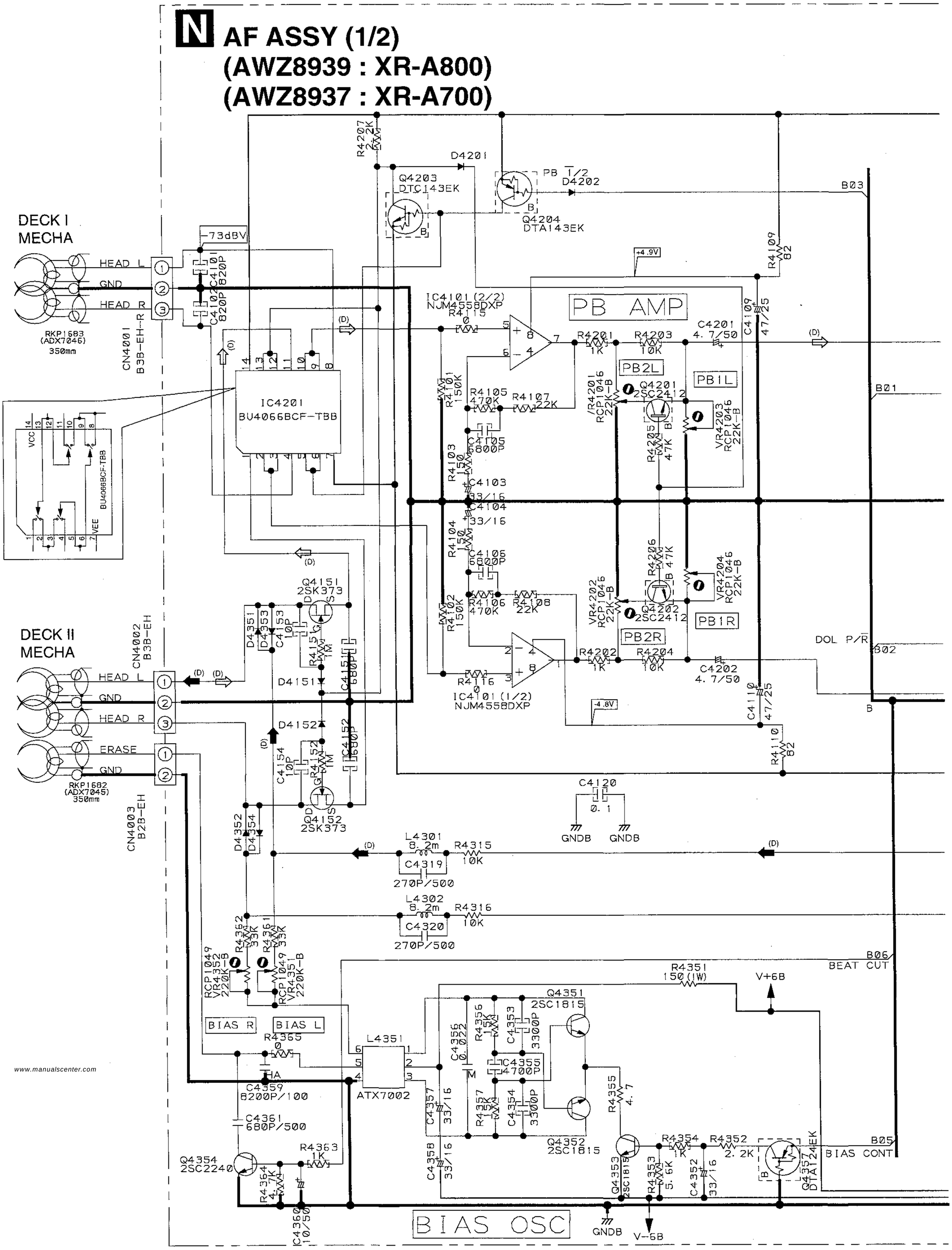
ERROR RATE

AC WAVE FIX

www.manualscenter.com

3.5 AF ASSY (1/2)

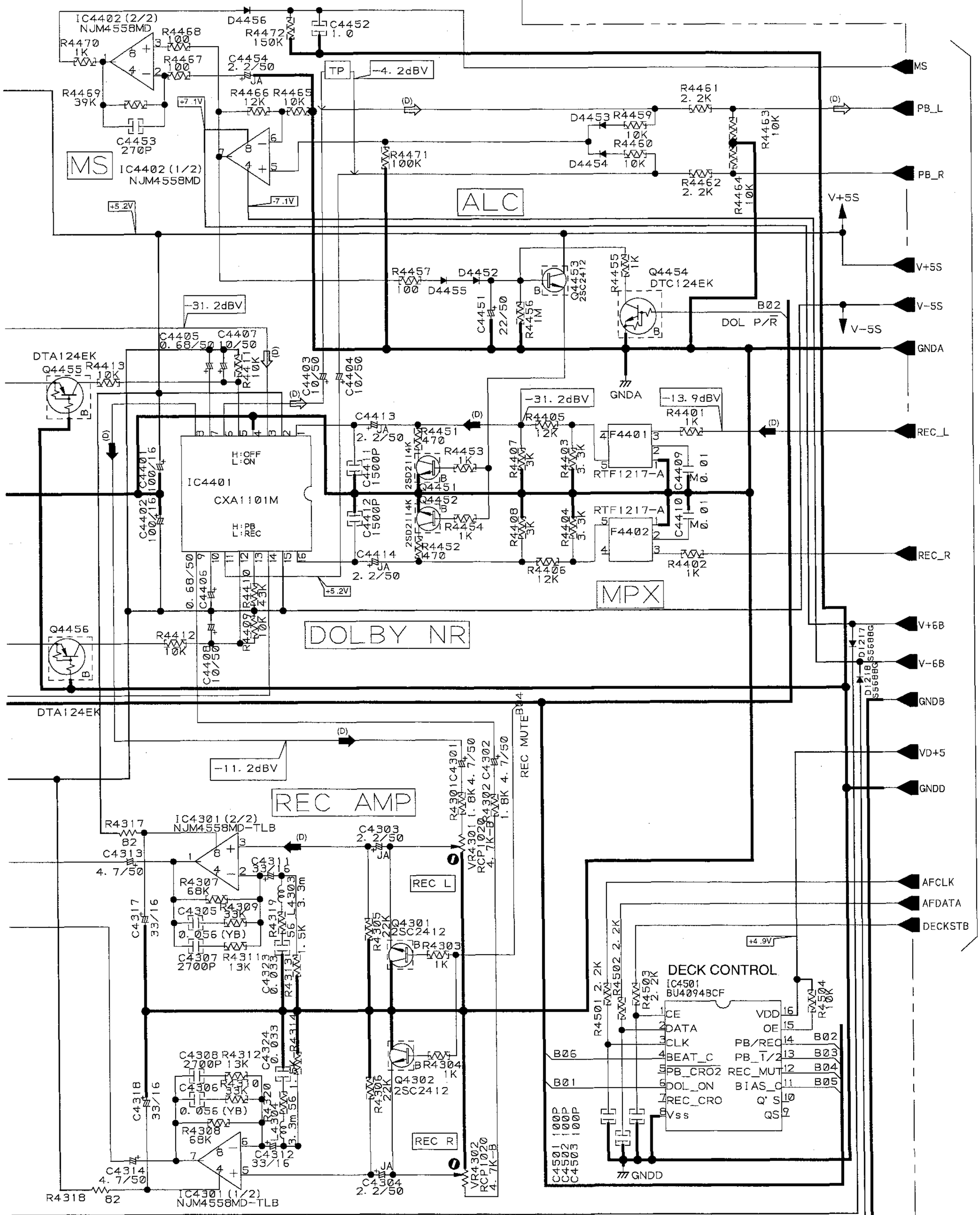
N AF ASSY (1/2)
(AWZ8939 : XR-A800)
(AWZ8937 : XR-A700)



www.manualscenter.com

If the parts are not identified, the followings are used.

ISS254-T



SIGNAL ROUTE

(D) ➡ : DECK RECORDING SIGNAL

(D) ⇨ : DECK PLAYBACK SIGNAL

www.manualscenter.com

XR-A800, XR-A700
3.6 AF ASSY (2/2) AND TX CONNECT ASSY

www.manualscenter.com

J CN8001

CN1001
9604S-35C

RDSCLK RDSDATA NC RDSMUTE PLLCE PLLDIN PLLCLK PLLDOUT TXMUTE ST/TU NC S. JOG ACWAVE DISPCLK DISPDATA CDRST NC SBDATA SB R/E SBCLK NC NC U5. 6 NC VDS+5V NC SIG-5 CDR GNDA CDL NC CD+B GNDD CD-B GNDB

If the parts are not identified, the followings are used.
1SS254

CHASSIS

JA1001 VKB1046 L AUX IN R

E-VR

XR-A800 ONLY

IC1001 LC75394NED

IC1002 NJM4558M-D

IC1003 NJM4558M-D

IC1004 BU4066BCF

IC1008 NJM4558M-D

IC1009 M51134FP Bass Synthe

IC1010 M62429FP-TFB

IC1202 AEK7005 (500mA)

L/R MIX & LPF

XR-A700 ONLY

HPF for Tweeter

LPF for Woofer

PB_L GNDA PB_R RECL RECR AFCLK AFDATA DECKSTB MS V+5S V-5S V+6B V-6B GNDB VD+5 GNDD

ST/TU +5V TX+12V MUTE PLL DO L GND R CLK DATA CE RDS

CN1008 KM200TA12

CN1010 KM200IB14 STEREO +5V TX+12V TUNE MUTE PLL DO L GND R CLK DATA CE LOCAL RDS

CN1009 KP200TA12L ST/TU +5V TX+12V MUTE PLL DO L GND R CLK DATA CE RDS

A CN6201

SIGNAL ROUTE
- ➡ : AUDIO SIGNAL
- (C) ➡ : CD AUDIO SIGNAL
- (D) ➡ : DECK RECORDING SIGNAL
- (D) ⇨ : DECK PLAYBACK SIGNAL
- (TX) ➡ : TUNER AUDIO SIGNAL
- (A) ➡ : AUX AUDIO SIGNAL
- (T) ⇨ : TWEETER AUDIO SIGNAL (XR-A800 ONLY)
- (W) ⇨ : WOOFER AUDIO SIGNAL (XR-A700 AUDIO SIGNAL)
- (B) ⇨ : BASS AUDIO SIGNA (XR-A800 ONLY)

XR-A800 ONLY

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.491.500 MFD. BY LITTELFUSE INK FOR IC1202 (AEK7005).

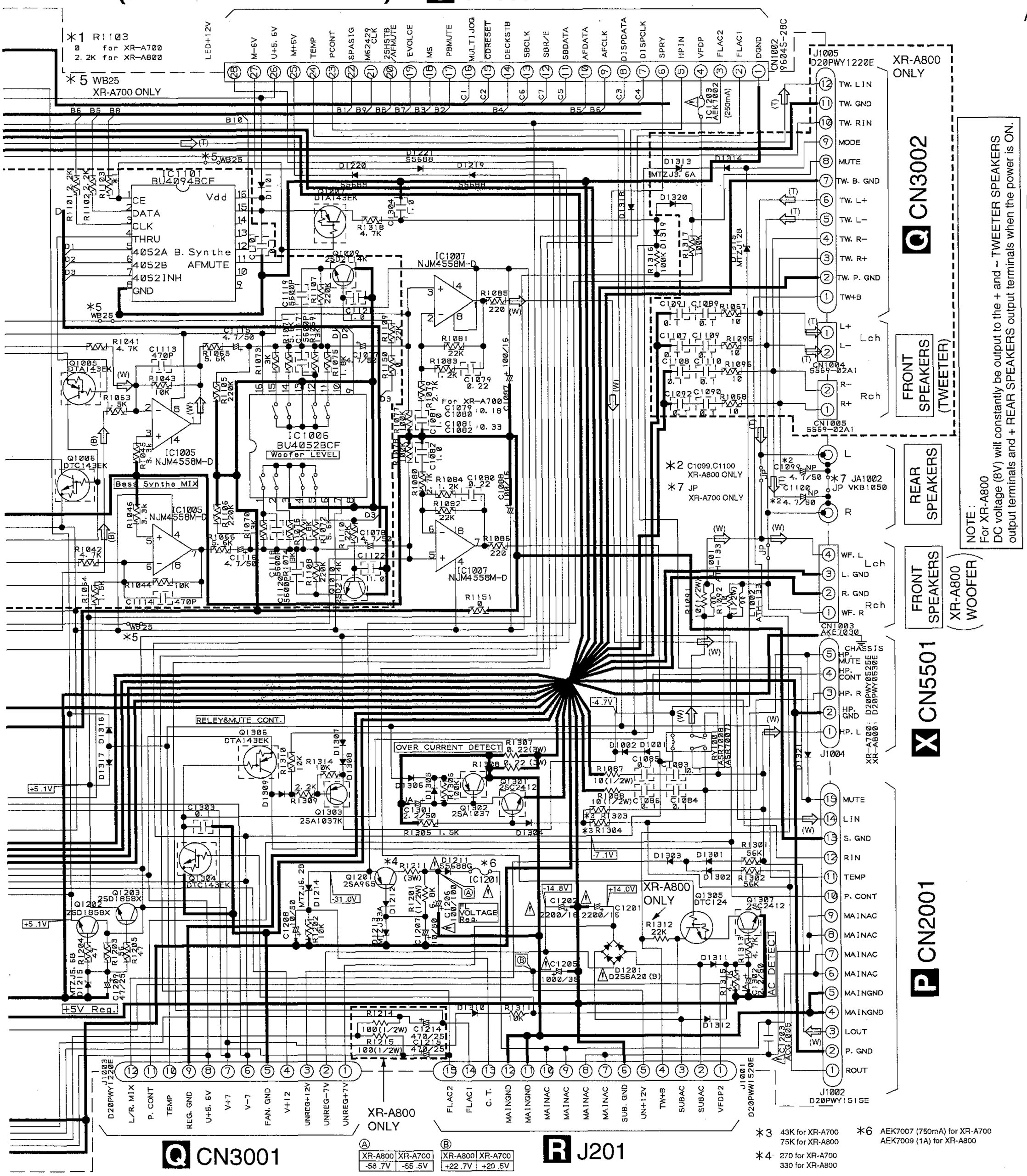
CN1007 52147-0510 VFDP2 FLAC3 FLAC4 D+5. 6V D. GND

U J7001

O TX CONNECT ASSY (AWZ8972)

N AF ASSY (2/2)
(AWZ8939 : XR-A800)
(AWZ8937 : XR-A700)

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No. 491250 MFD. BY LITTELFUSE INK FOR IC1203 (AEK7002).

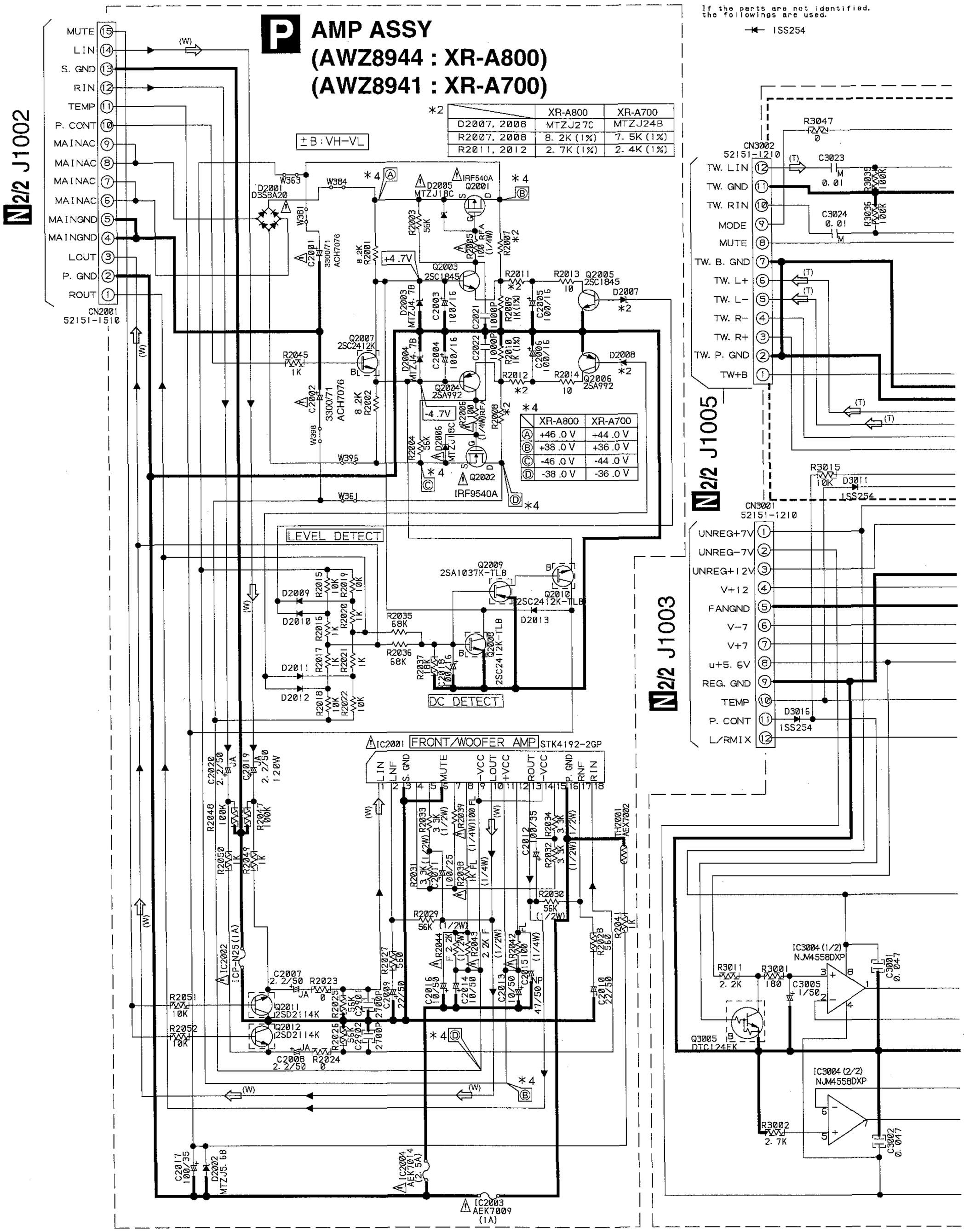


CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.491.750 MFD. BY LITTELFUSE INK FOR IC1201 (AEK7007 ; XR-A700).

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.491001 MFD. BY LITTELFUSE INK FOR IC1201 (AEK7009 ; XR-A800).

www.manualscenter.com

3.7 AMP ASSY, POWER SUPPLY ASSY, SECONDARY ASSY AND PRIMARY ASSY


P AMP ASSY
(AWZ8944 : XR-A800)
(AWZ8941 : XR-A700)
If the parts are not identified, the followings are used.
ISS254
*2
XR-A800 XR-A700
D2007, 2008 MTZJ27C MTZJ24B
R2007, 2008 8.2K (1%) 7.5K (1%)
R2011, 2012 2.7K (1%) 2.4K (1%)
±B : VH–VL
*4
XR-A800 XR-A700
Ⓐ +46.0 V +44.0 V
Ⓑ +38.0 V +36.0 V
Ⓒ -46.0 V -44.0 V
Ⓓ -38.0 V -36.0 V
N 2/2 J1002
CN2001 52151-1510
MUTE LIN S. GND RIN TEMP P. CONT MAINAC MAINAC MAINAC MAINAC MAINGND MAINGND LOUT P. GND ROUT
N 2/2 J1005
CN3002 52151-1210
TW. LIN TW. GND TW. RIN MODE MUTE TW. B. GND TW. L+ TW. L– TW. R– TW. R+ TW. P. GND TW+B
N 2/2 J1003
CN3001 52151-1210
UNREG+7V UNREG–7V UNREG+12V V+12 FANGND V–7 V+7 u+5.6V REG. GND TEMP P. CONT L/RMIX
LEVEL DETECT
DC DETECT
IC2001 FRONT/WOOFER AMP STK4192-2GP
LIN LNF S. GND MUTE –VCC LOUT +VCC ROUT –VCC P. GND RNF RIN
IC2002 ICP-N25 (1A)
IC2004 AEK7014 (2.5A)
IC2003 AEK7009 (1A)
IC3004 (1/2) NJM4558DXP
IC3004 (2/2) NJM4558DXP
Q3005 DTC124EK
IRF540A
IRF9540A
2SC1845
2SA992
2SC2412K
2SA1037K-TLB
2SC2412K-TLB
2SJ114K
+4.7V
-4.7V

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACEMENT ONLY WITH SAME TYPE No. ICP-N25, MFD BY ROHM CO., LTD. FOR IC2002 .

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No. 49102.5 MFD. BY LITTELFUSE INK FOR IC2004 (AEK7014).

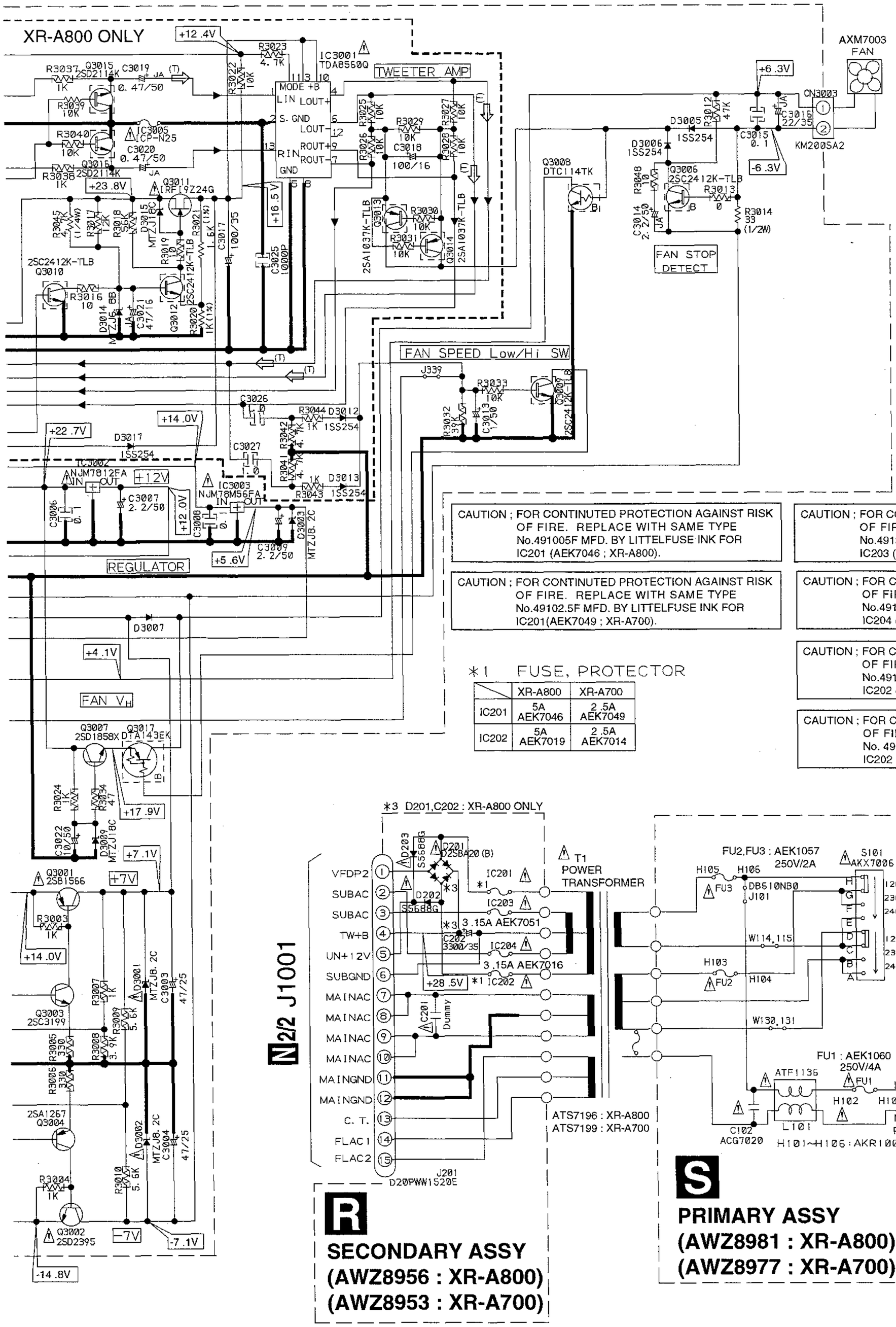
CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No. 491001 MFD. BY LITTELFUSE INK FOR IC2003 (AEK7009).

www.manualscenter.com

Q POWER SUPPLY ASSY (AWZ8950 : XR-A800)
(AWZ8947 : XR-A700)

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACEMENT ONLY WITH SAME TYPE No. ICP-N25, MFD BY ROHM CO., LTD. FOR IC3005 .

SIGNAL ROUTE
(W) ⇨ : WOOFERAUDIO SIGNAL
(T) ⇨ : TWEETERAUDIO SIGNAL



CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.491005F MFD. BY LITTELFUSE INK FOR IC201 (AEK7046 ; XR-A800).

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.49102.5F MFD. BY LITTELFUSE INK FOR IC201(AEK7049 ; XR-A700).

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.4913.15F MFD. BY LITTELFUSE INK FOR IC203 (AEK7051).

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.4913.15 MFD. BY LITTELFUSE INK FOR IC204 (AEK7016).

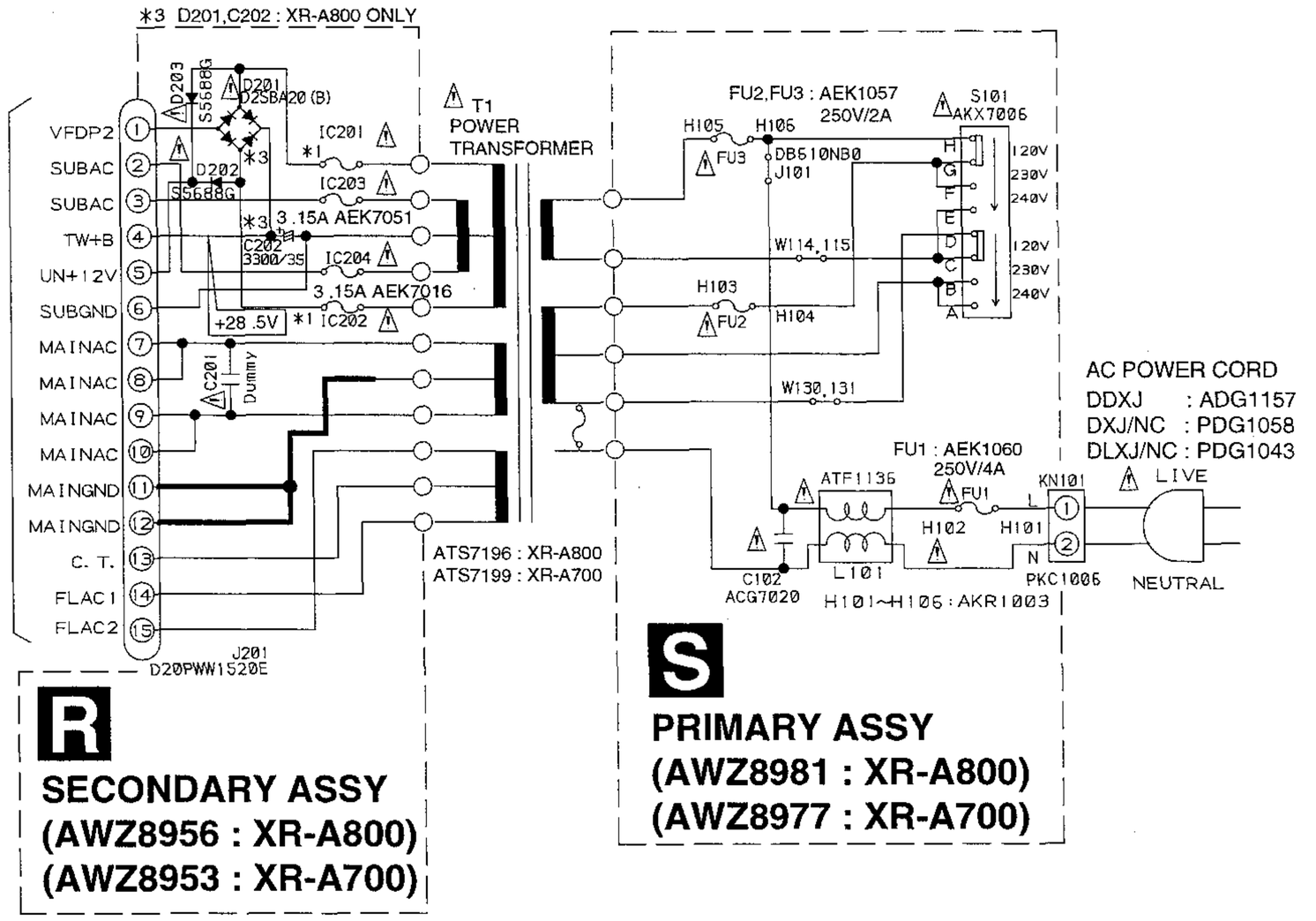
CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No.491005 MFD. BY LITTELFUSE INK FOR IC202 (AEK7019 ; XR-A800).

CAUTION ; FOR CONTINUTED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No. 49102.5 MFD. BY LITTELFUSE INK FOR IC202 (AEK7014 ; XR-A700).

*1 FUSE, PROTECTOR

	XR-A800	XR-A700
IC201	5A AEK7046	2.5A AEK7049
IC202	5A AEK7019	2.5A AEK7014

*3 D201,C202 : XR-A800 ONLY



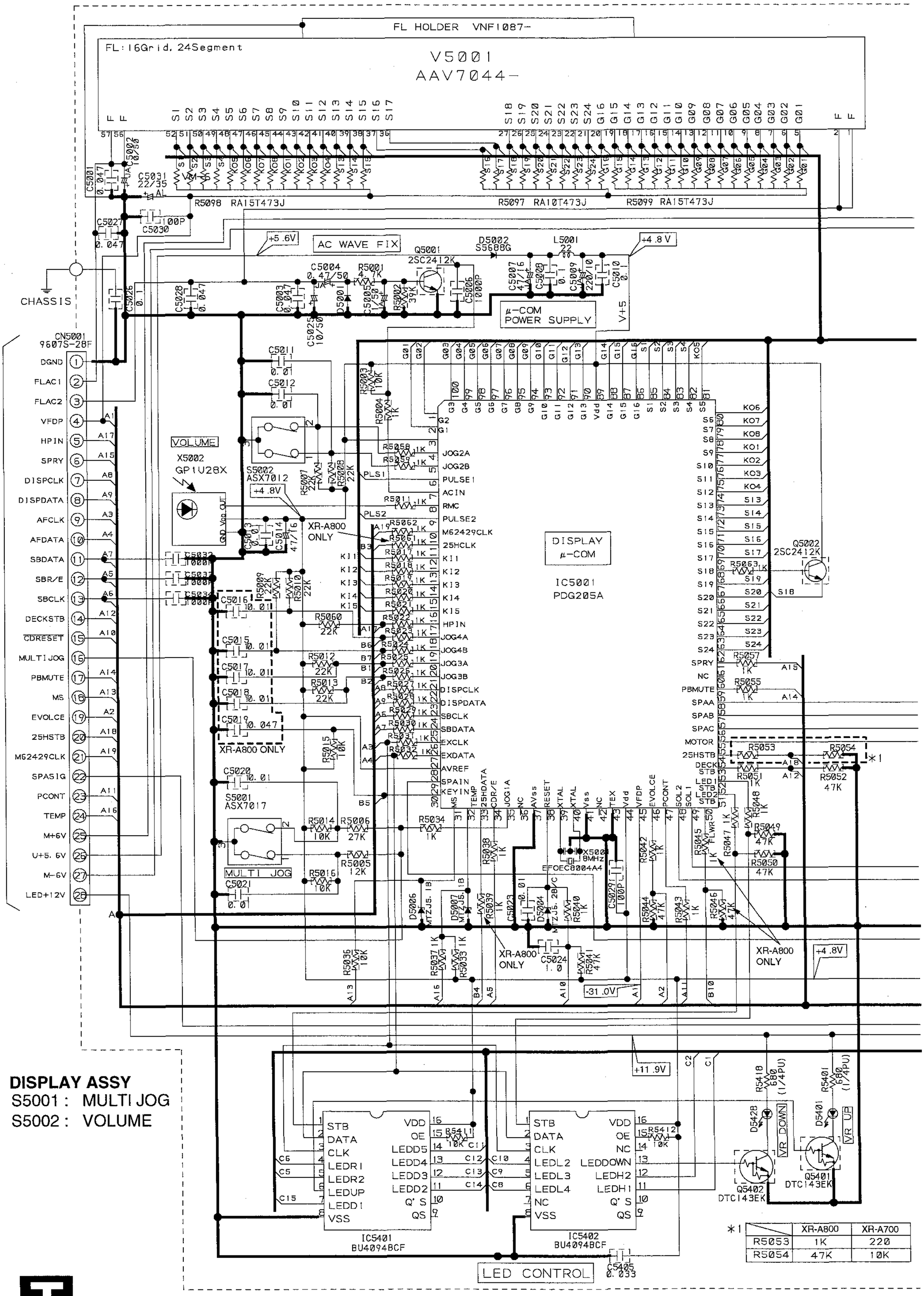
AC POWER CORD
DDXJ : ADG1157
DXJ/NC : PDG1058
DLXJ/NC : PDG1043

R
SECONDARY ASSY
(AWZ8956 : XR-A800)
(AWZ8953 : XR-A700)

S
PRIMARY ASSY
(AWZ8981 : XR-A800)
(AWZ8977 : XR-A700)

www.manualscenter.com

3.8 DISPLAY ASSY



DISPLAY ASSY
S5001 : MULTI JOG
S5002 : VOLUME

*1

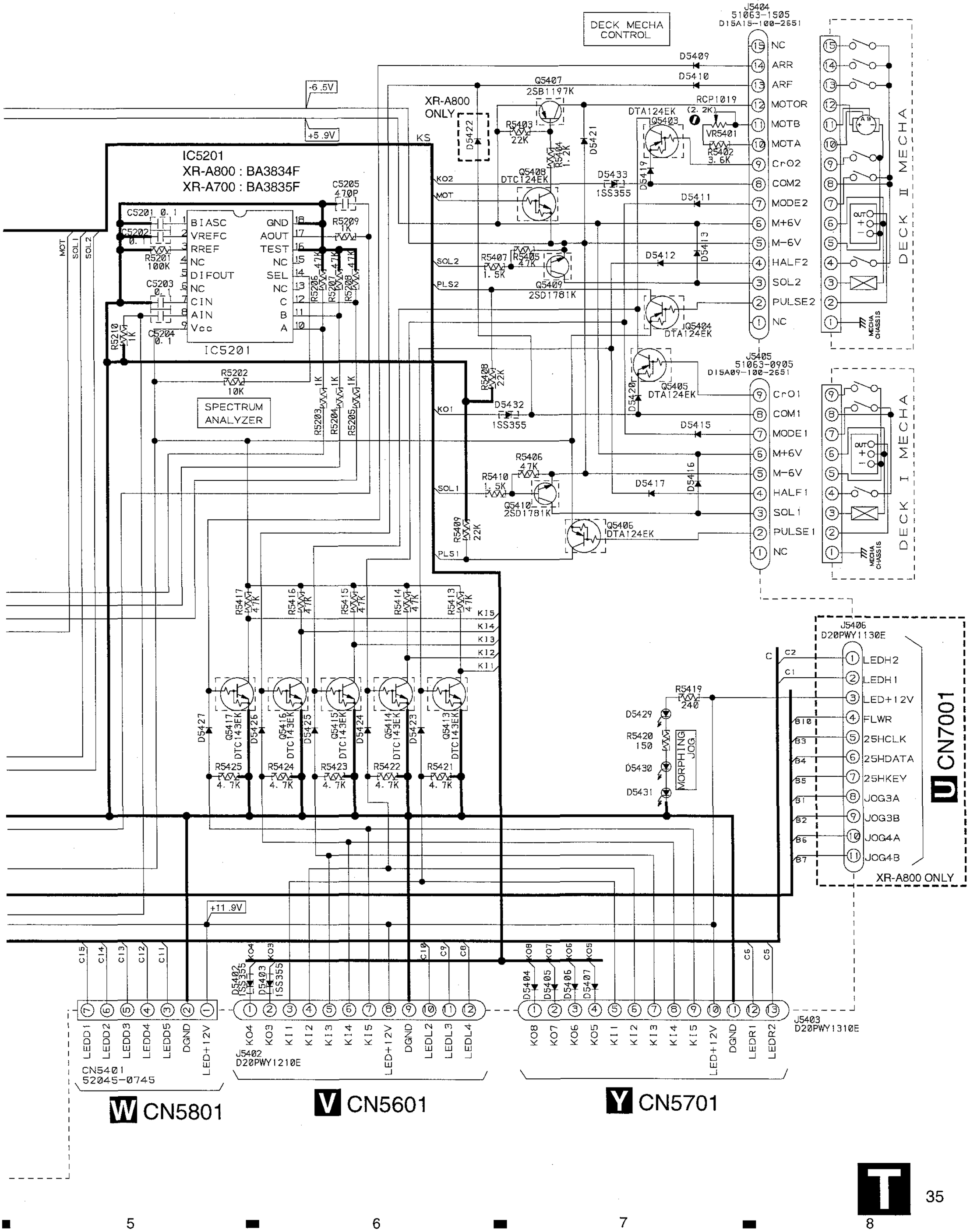
	XR-A800	XR-A700
R5053	1K	220
R5054	47K	10K

www.manualscenter.com

If the parts art not identified, the followings are used.

- 1SS254
- SLP7118C51H-TS

T DISPLAY ASSY (AWP7015 : XR-A800) (AWP7013 : XR-A700)



3.9 SUB DISPLAY ASSY

U SUB DISPLAY ASSY (AWP7017 : XR-A800 ONLY)

If the parts are not identified, the followings are used.

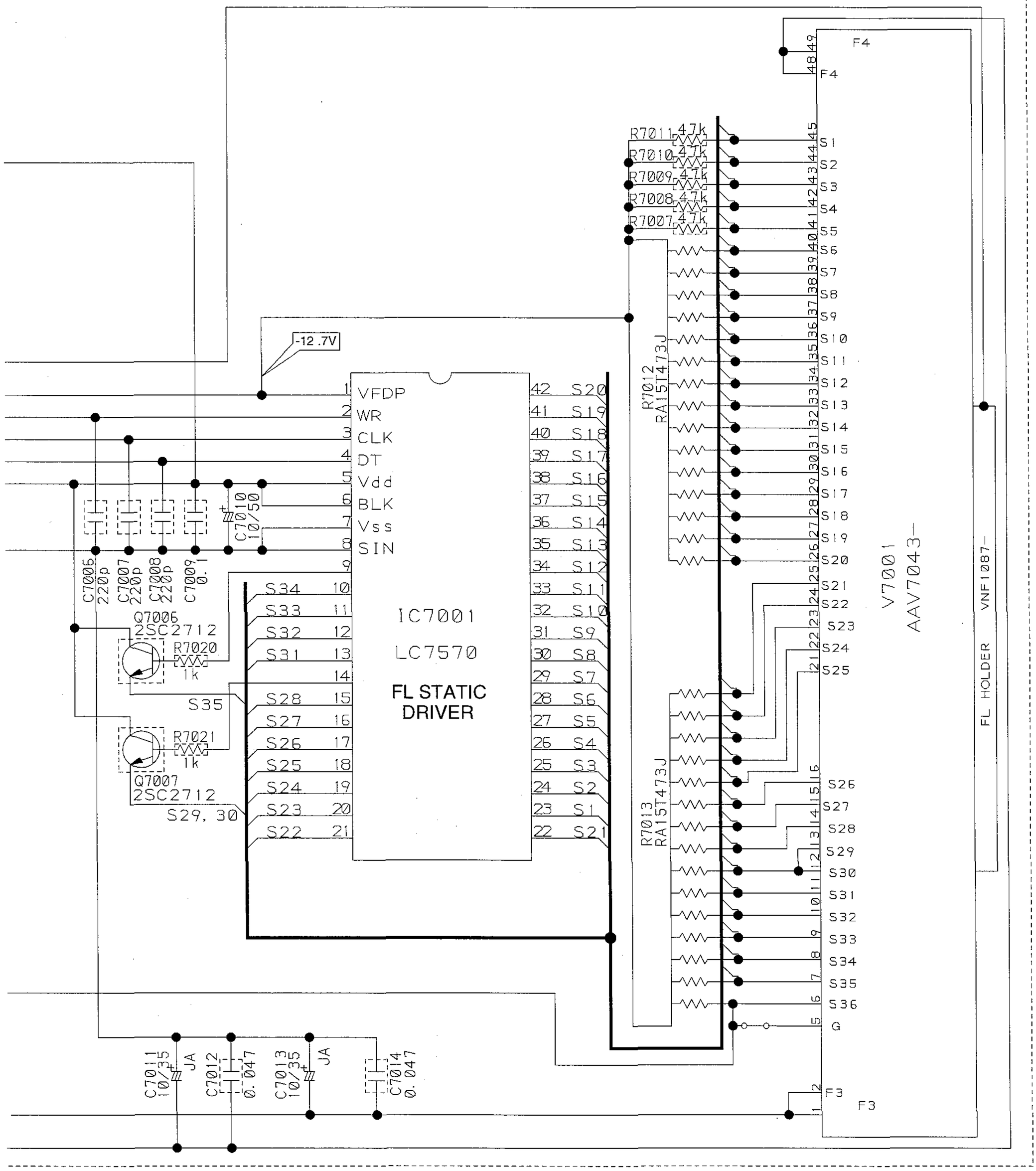
SLP7118C51H-TS

SUB DISPLAY ASSY

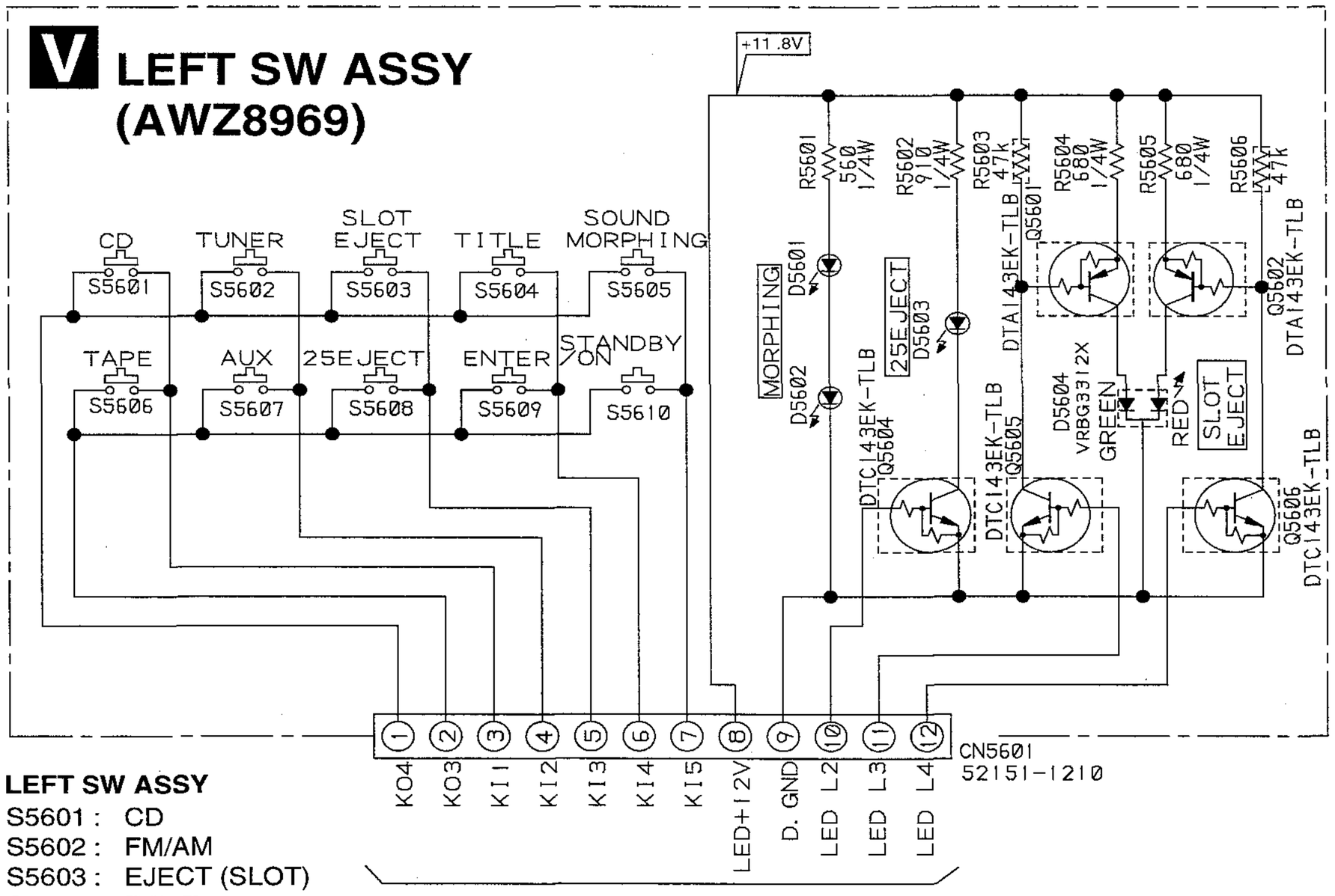
S7001 : P.BASS JOG
S7002 : P.BASS
S7003 : WOOFER LEVEL
S7004 : BASS SYNTH

www.manualscenter.com

www.manualscenter.com



3.10 LEFT SW ASSY AND DOOR LED ASSY



LEFT SW ASSY

S5601 : CD
S5602 : FM/AM
S5603 : EJECT (SLOT)
S5604 : TITLE
S5605 : SOUND MORPHING
S5606 : TAPE I / II
S5607 : AUX (DEMO)
S5608 : OPEN/CLOSE (25)
S5609 : ENTER
S5610 : STANDBY/ON

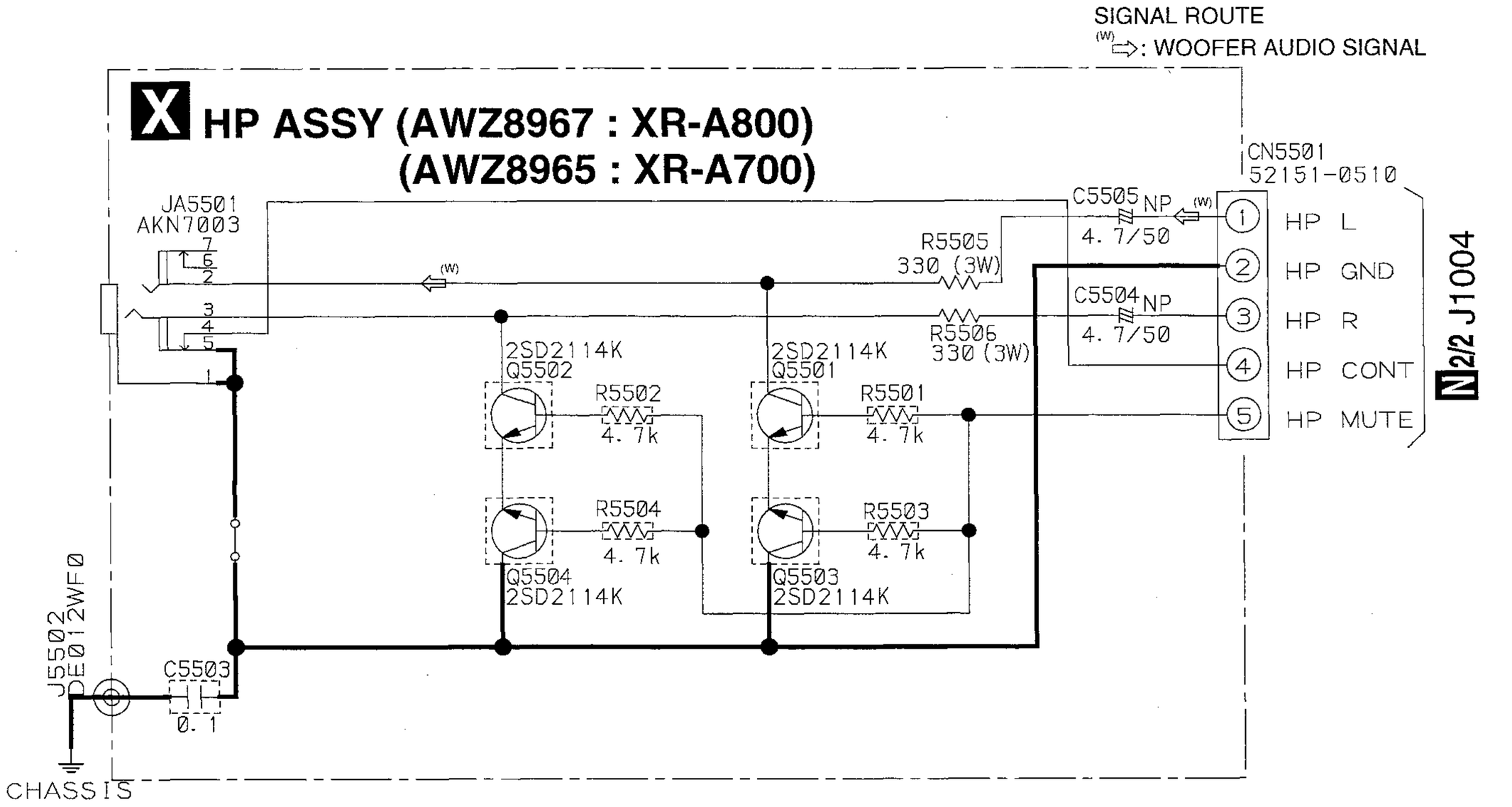
If the parts are not identified, the followings are used:

ASG1034-A-T

SLP7118C51H-TS

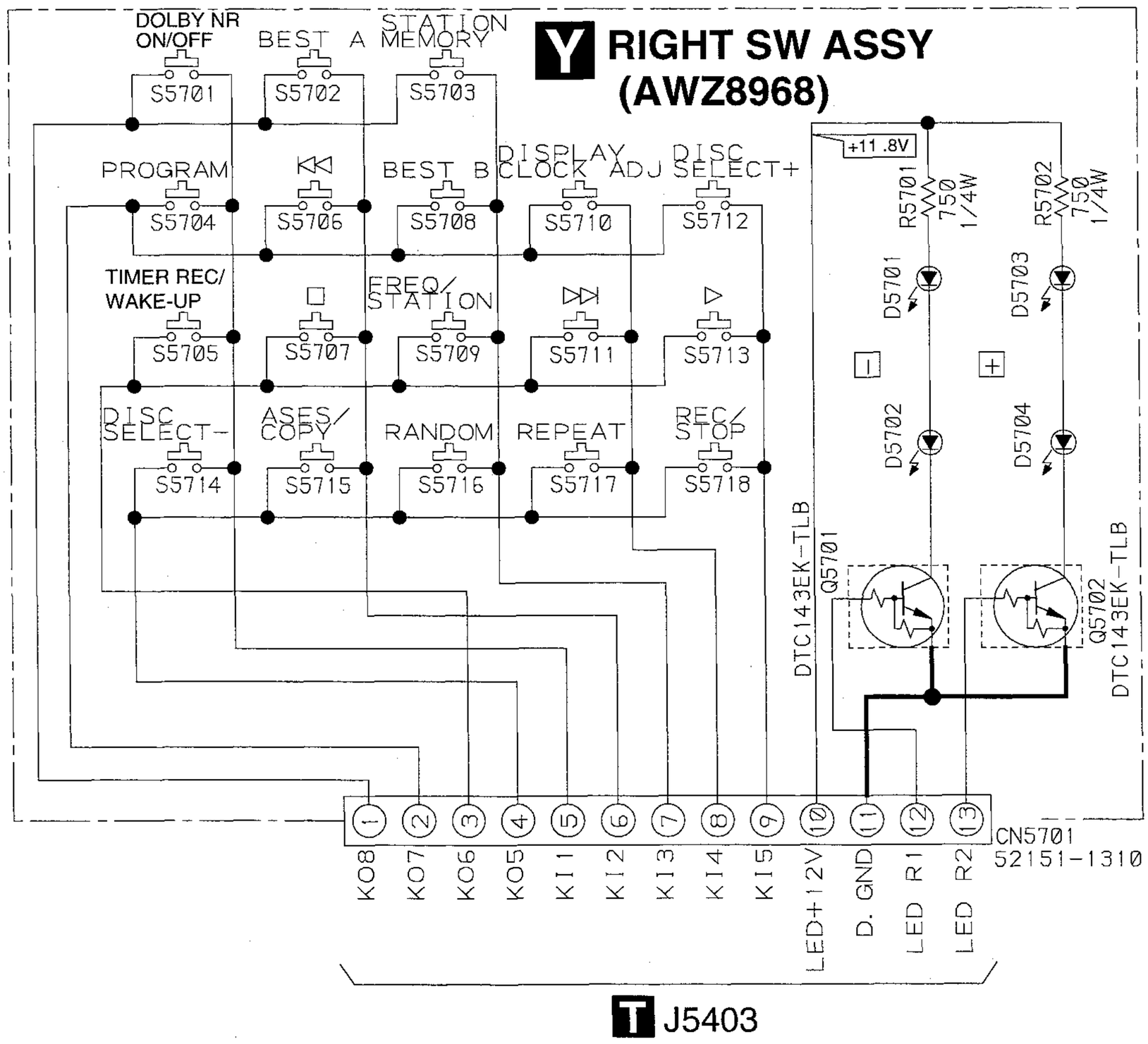
www.manualscenter.com

3.11 HP ASSY AND RIGHT SW ASSY



RIGHT SW ASSY

S5701 : DOLBY NR ON/OFF
S5702 : BEST A
S5703 : STATION MEMORY
S5704 : PROGRAM
S5705 : TIMER REC/WAKE-UP
S5706 : TUNING – / ⏮ ◀◀
S5707 : STOP
S5708 : BEST B
S5709 : FREQ/STATION
S5710 : DISPLAY/CLOCK ADJ
TIMER REC/WAKE-UP
S5711 : TUNING + / ▶▶ ⏭
S5712 : DISC SELECT +
S5713 : PLAY/PAUSE
S5714 : DISC SELECT –
S5715 : ASES/COPY
S5716 : RANDOM
S5717 : REPEAT
S5718 : REC/STOP



www.manualscenter.com

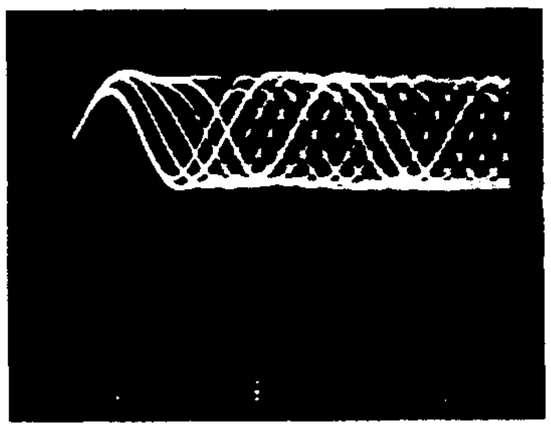
XR-A800, XR-A700

WAVEFORMS

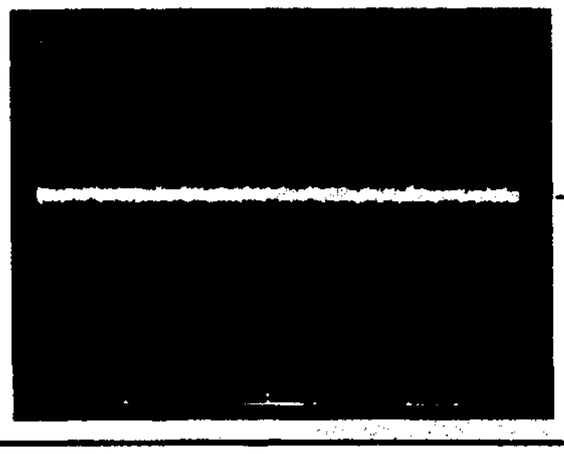
Note : The encircled numbers denote measuring points in the schematic diagram.

*1 FOCUS-IN : Press the key without loading a disc.

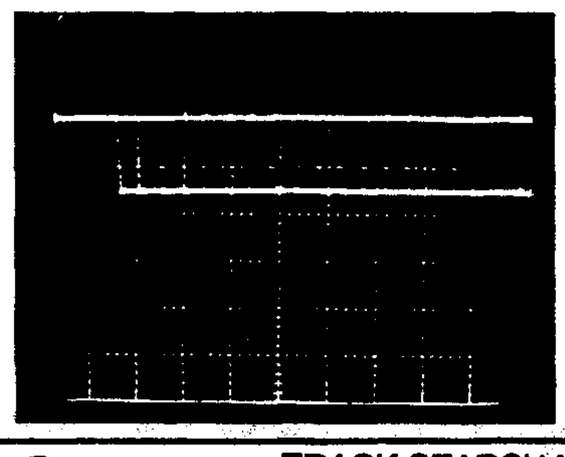
② TP1-Pin 1 : PLAY MODE
(RF)
500mV/div 500nsec/div



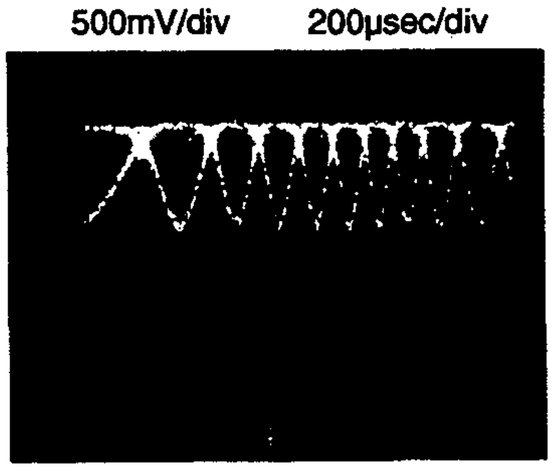
⑤ IC8202-Pin 3 : PLAY MODE
(FODR)
1V/div 1msec/div



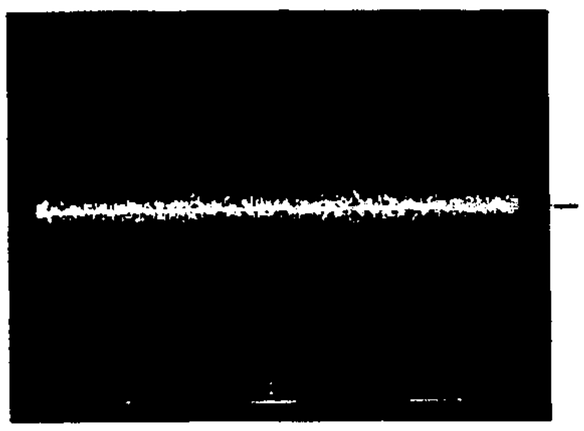
⑨ IC8151-Pin 32 : PLAY MODE
(EFM)
2V/div 500nsec/div



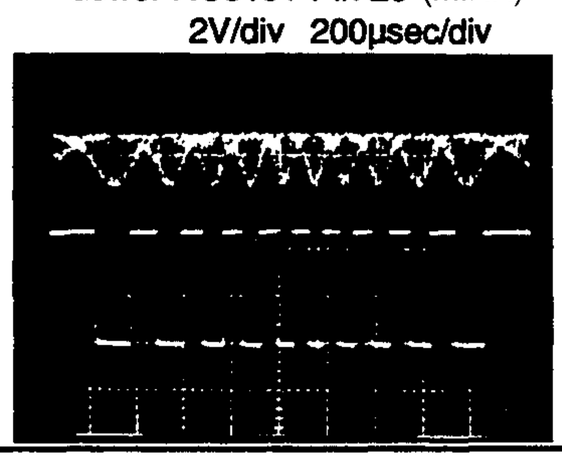
② TP1-Pin 1 : TRACK SEARCH MODE
(RF)
500mV/div 200µsec/div



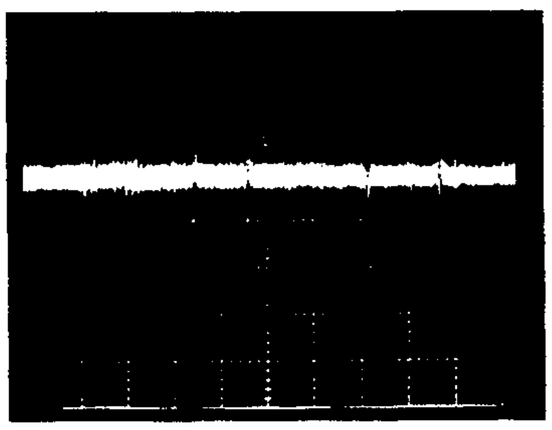
⑥ IC8202-Pin 4 : PLAY MODE
(TRDR)
500mV/div 1msec/div



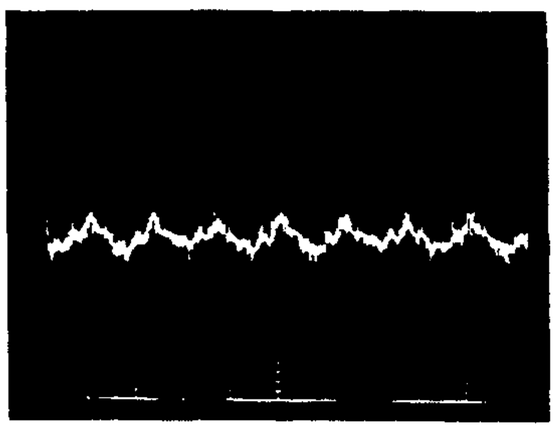
㉓ : TRACK SEARCH MODE
Upper : TP1-Pin 1 (RF) 1V/div
Lower : IC8151-Pin 26 (MIRR)
2V/div 200µsec/div



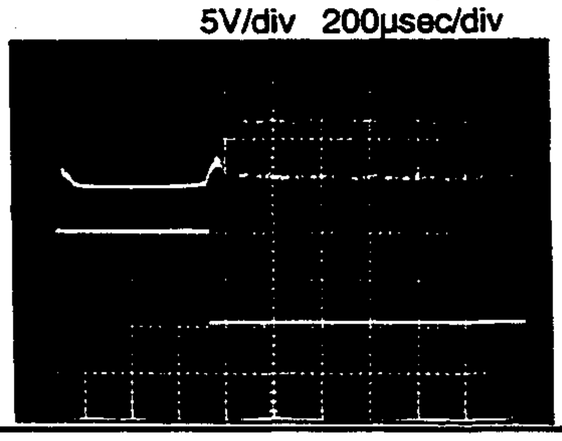
③ TP1-Pin 6 : PLAY MODE
(FOER)
100mV/div 10msec/div



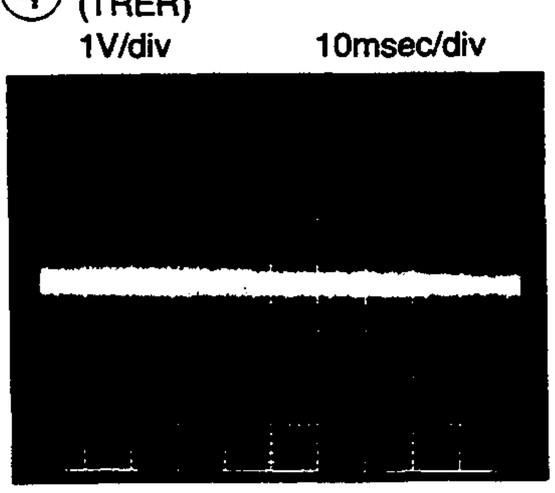
⑦ IC8201-Pin 3 : PLAY MODE
(SPDR)
1V/div 50msec/div



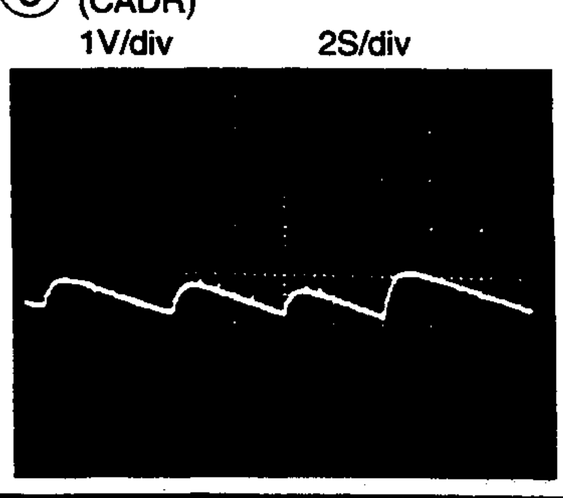
㉔ : PLAY MODE
Upper : TP1-Pin 1 (RF) 1V/div
Lower : IC8151-Pin 30 (DFCT)
5V/div 200µsec/div



④ TP1-Pin 2 : PLAY MODE
(TRER)
1V/div 10msec/div

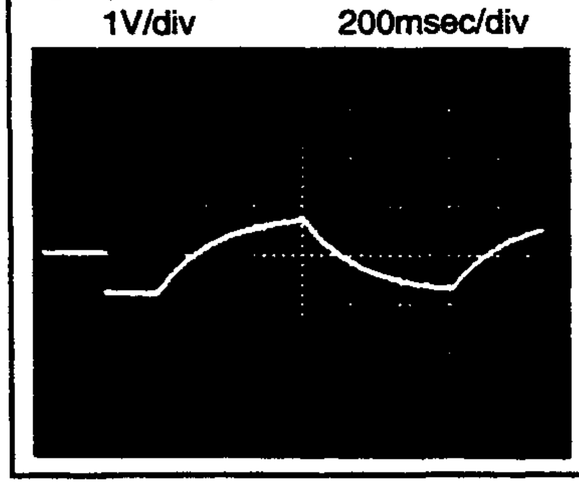


⑧ IC8202-Pin 9 : PLAY MODE
(CADR)
1V/div 2S/div

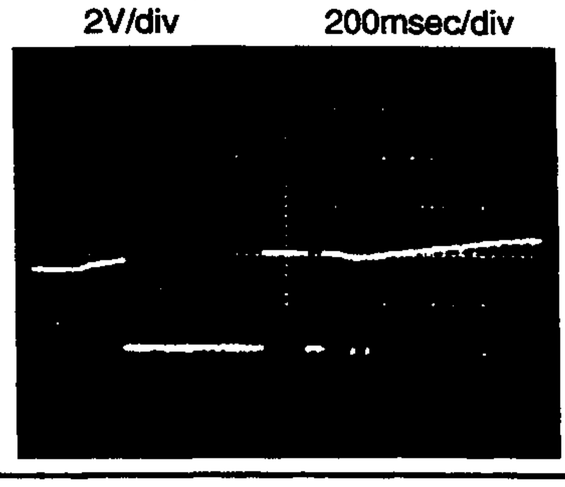


㉝ IC8301-Pin 27 : PLAY MODE
(MDP)
2V/div 2µsec/div

⑤ IC8202-Pin 3 : FOCUS-IN (*1) MODE
(FODR)
1V/div 200msec/div



⑧ IC8202-Pin 9 : TRACK SEARCH MODE
(CADR)
2V/div 200msec/div



4. PCB CONNECTION DIAGRAM

4.1 HP ASSY AND RIGHT SW ASSY

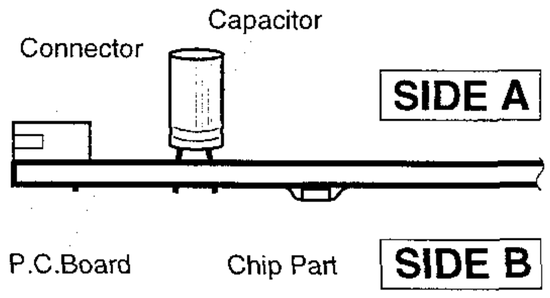
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

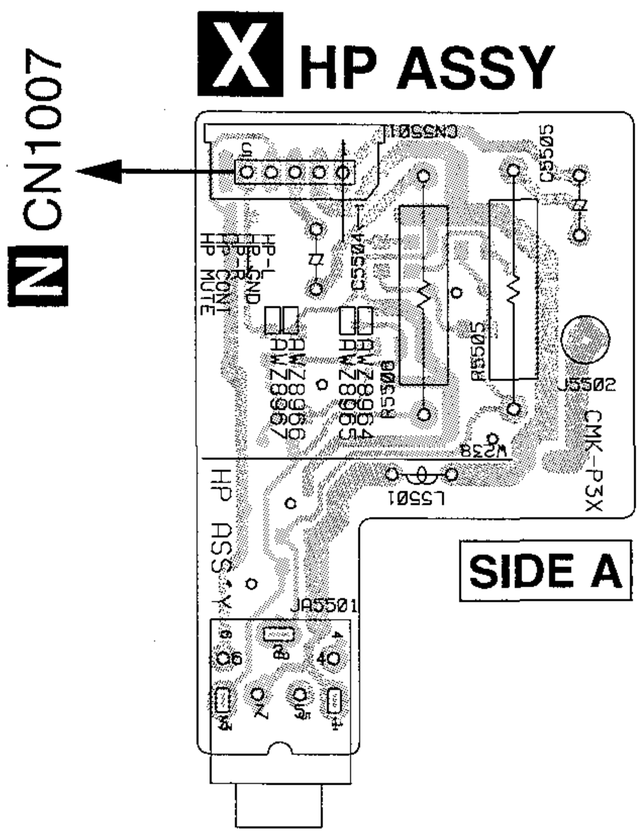
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

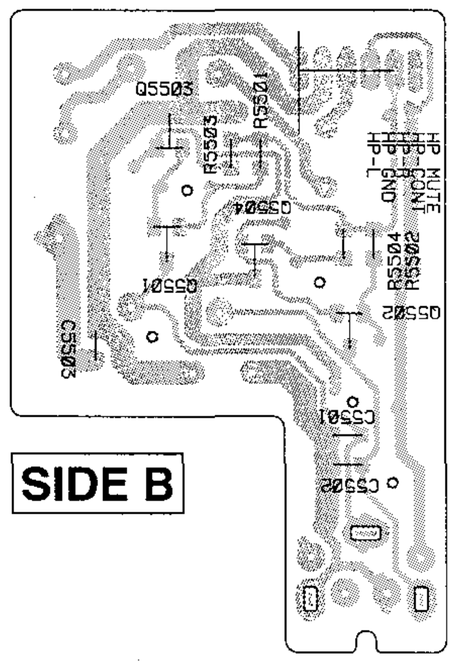
3. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams



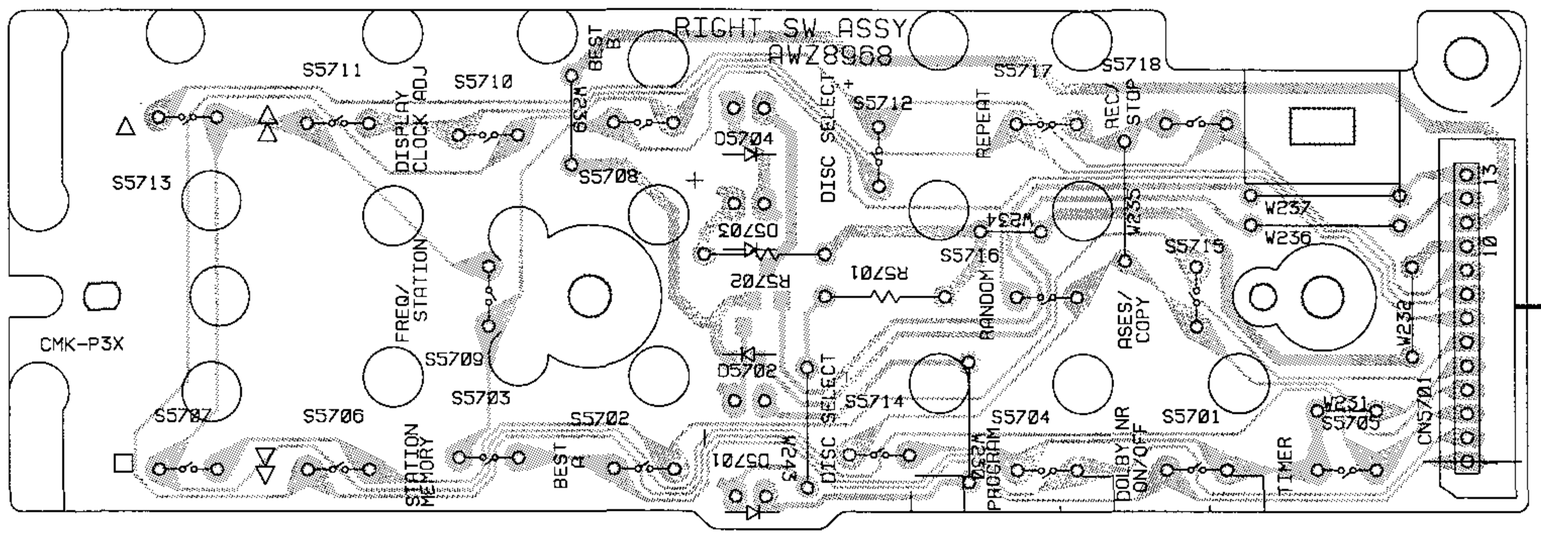
X HP ASSY



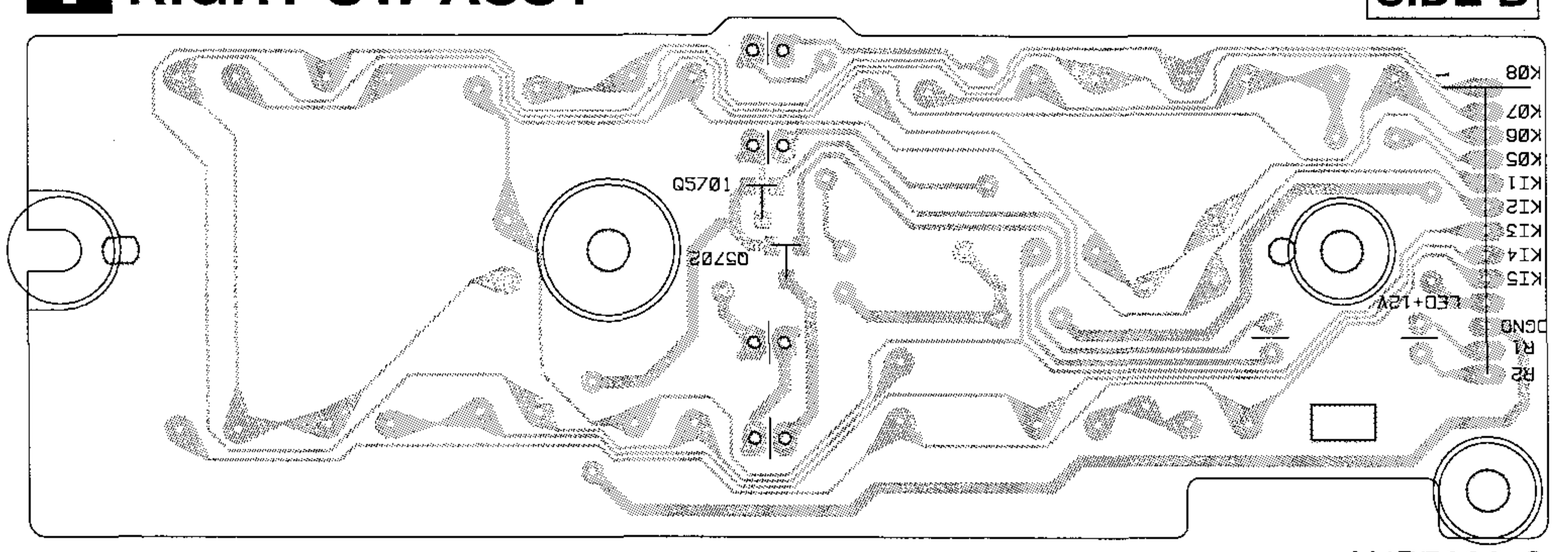


Q5503 Q5502
Q5501
Q5504

Y RIGHT SW ASSY



Y RIGHT SW ASSY



ANP7223-C

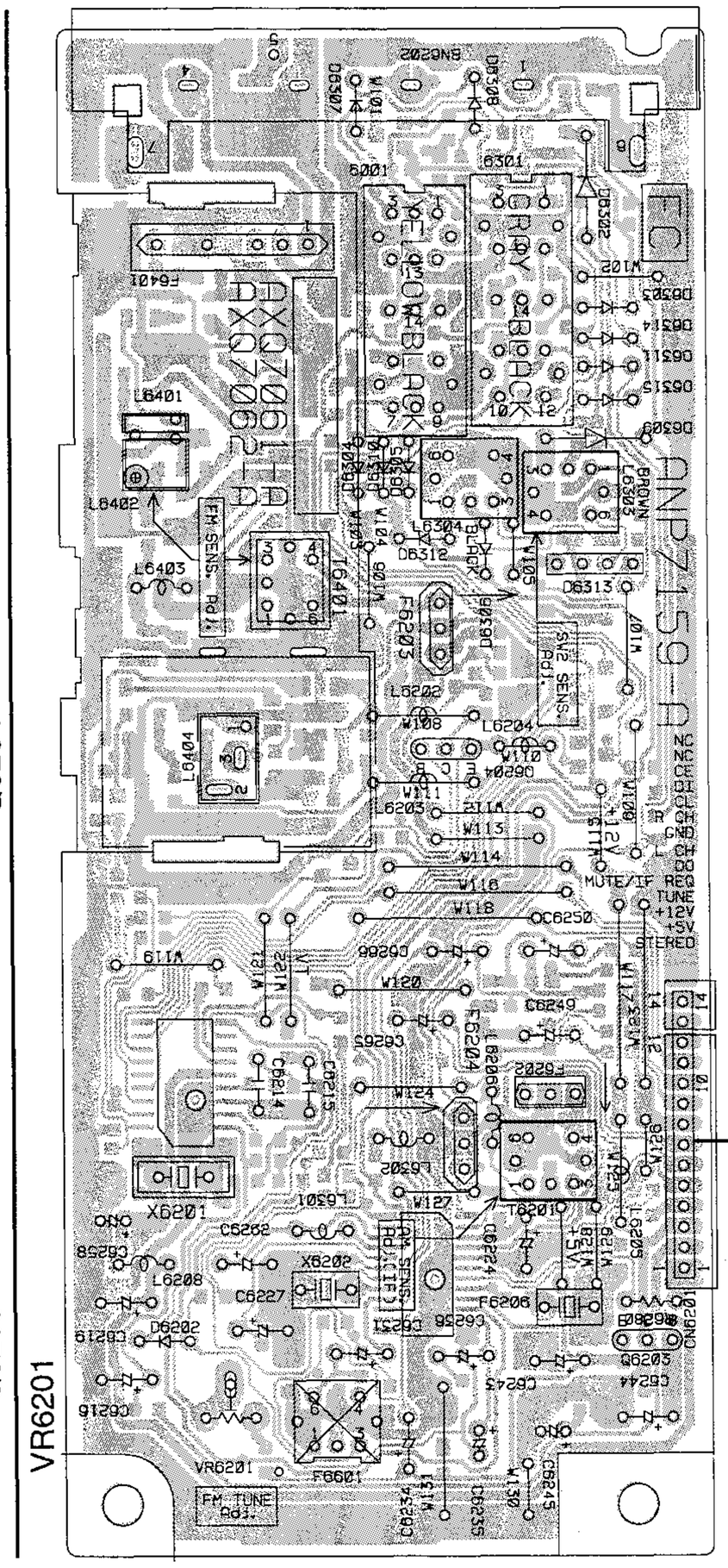
Q5701
Q5702

www.manualscenter.com

4.2 FM/AM TUNER MODULE

SIDE A

A FM/AM TUNER MODULE

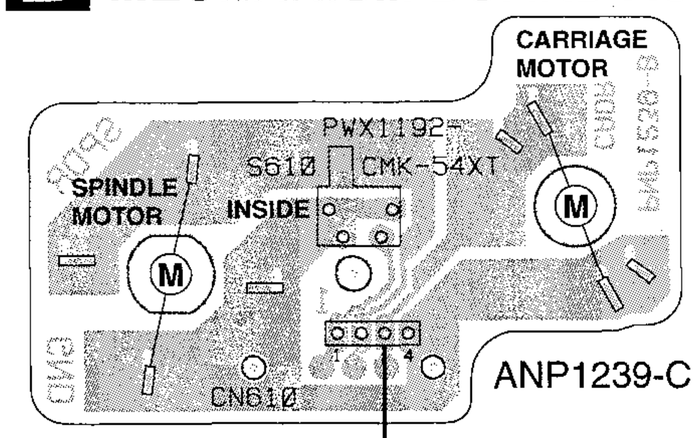


4.3 GS MECHANISM ASSY AND GS SLOT-IN MECHANISM ASSY

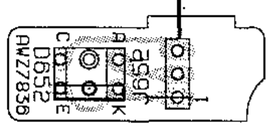
GS MECHANISM ASSY

SIDE A

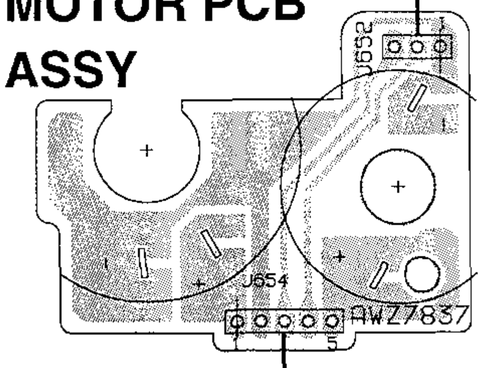
B MECHANISM BOARD ASSY



C SENSOR PCB ASSY

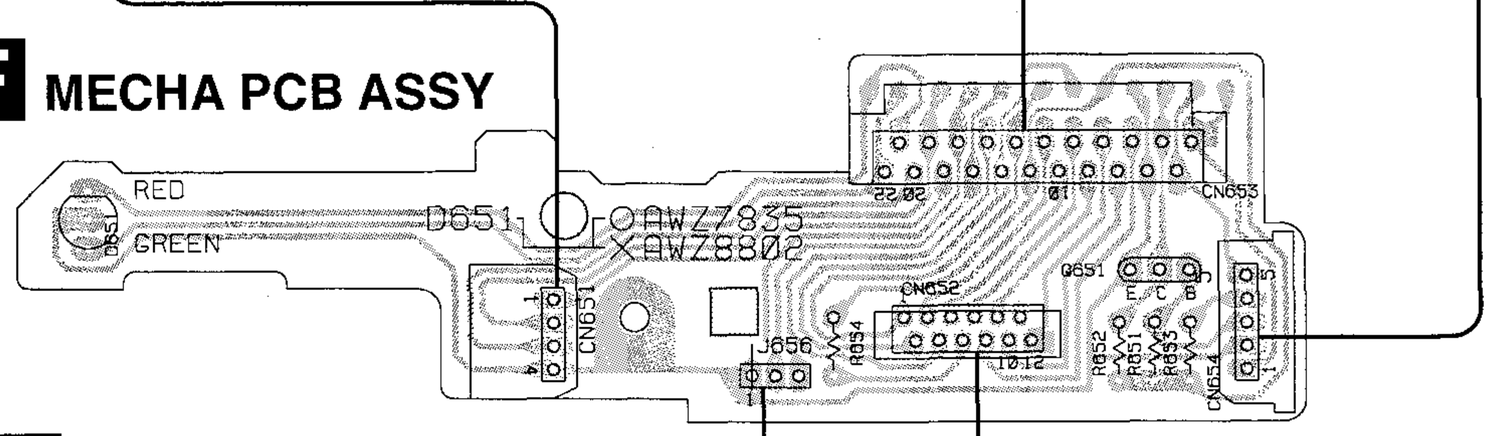


D MOTOR PCB ASSY

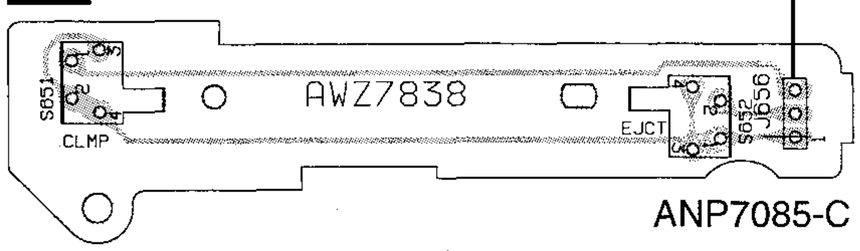


J CN8002

F MECHA PCB ASSY



E SW PCB ASSY



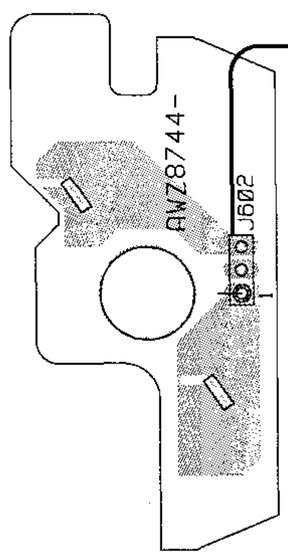
TO PICKUP ASSY

GS SLOT-IN MECHANISM ASSY

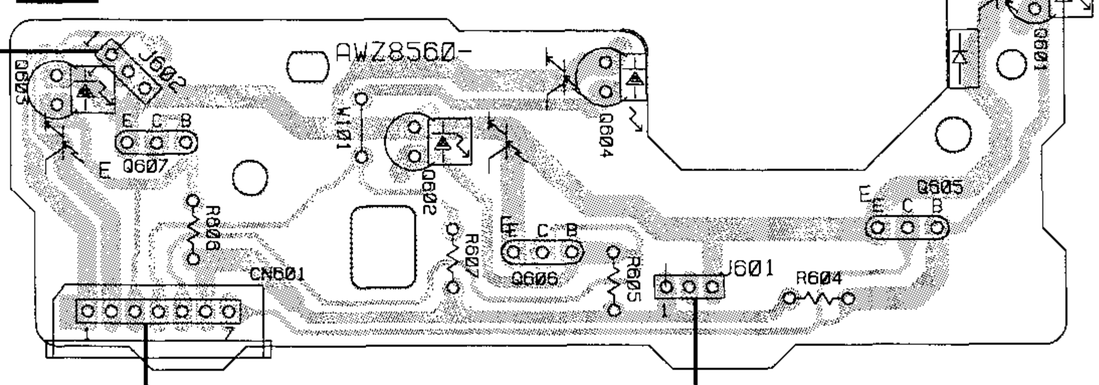
SIDE A

Q903 Q607 Q602 Q606 Q604 Q605 Q601

I MOTOR BOARD ASSY

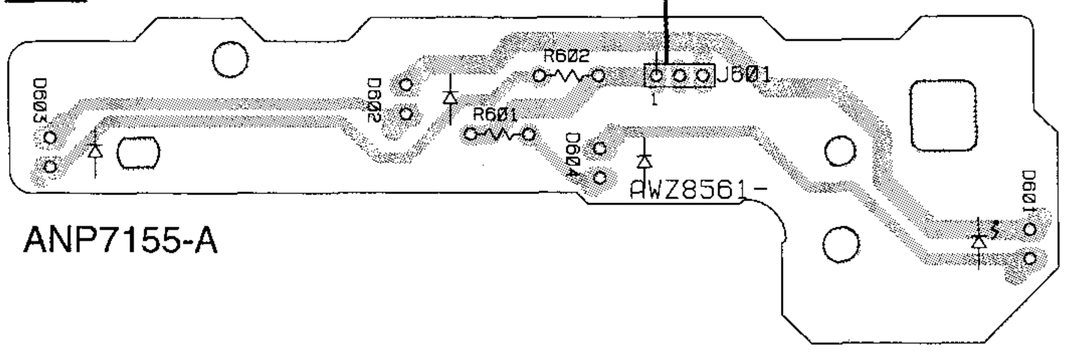


G SENSOR BOARD ASSY



J J8004

H LED BOARD ASSY



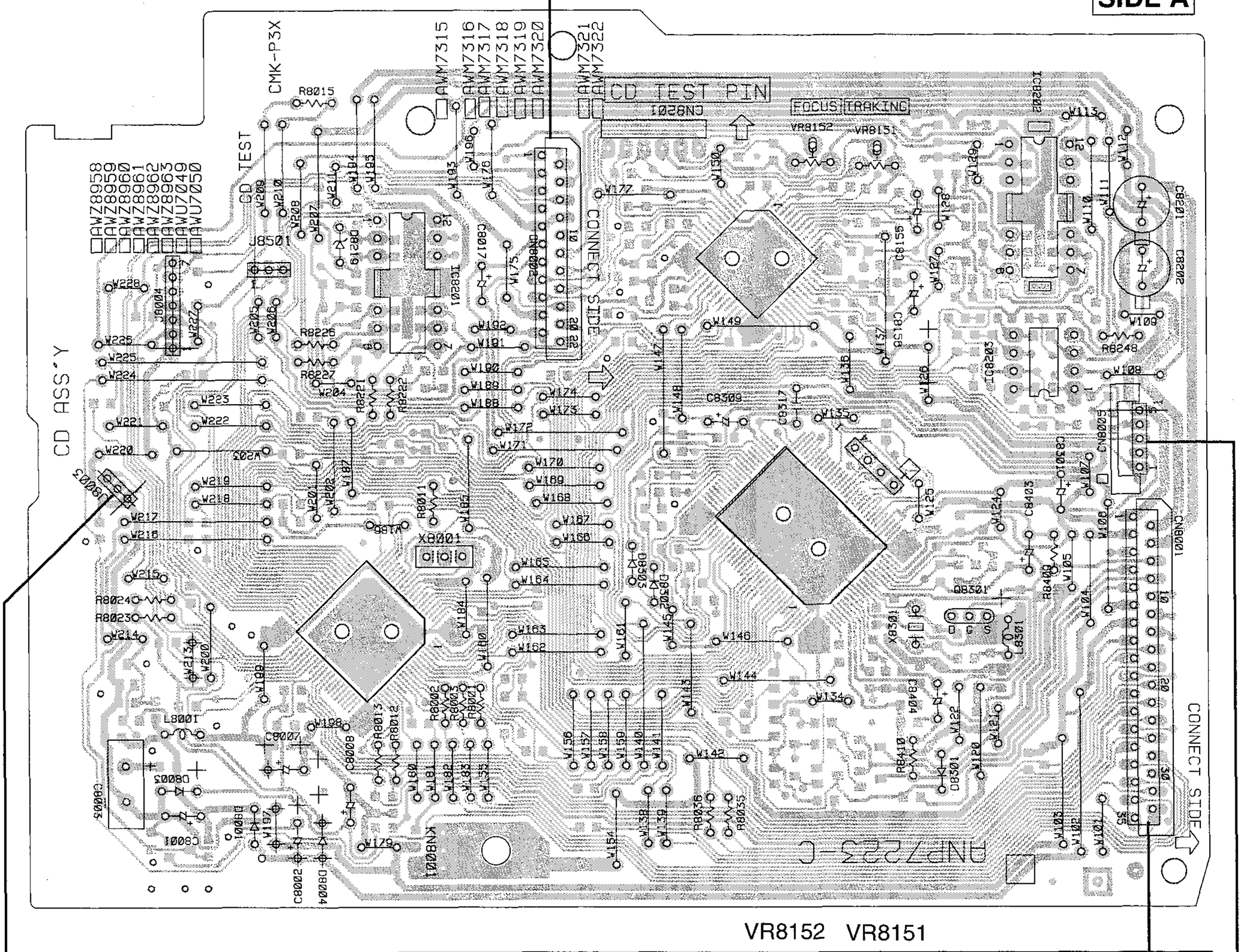
ANP7155-A

4.4 GM-CD ASSY, HOME SW ASSY, DOOR SW ASSY AND DOOR MOTOR ASSY

J GM-CD ASSY

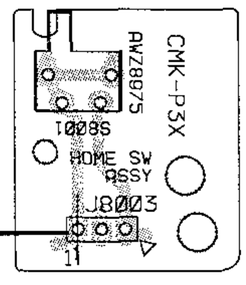
F CN653

SIDE A

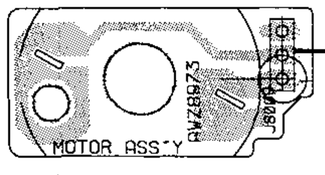


N CN1001

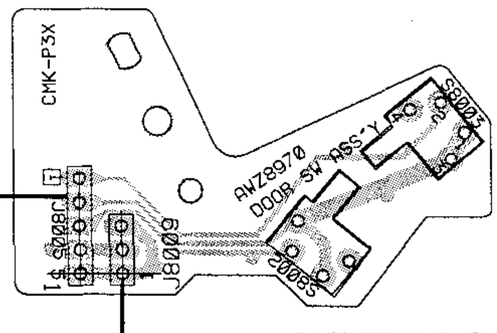
K HOME SW ASSY



M DOOR MOTOR ASSY



L DOOR SW ASSY



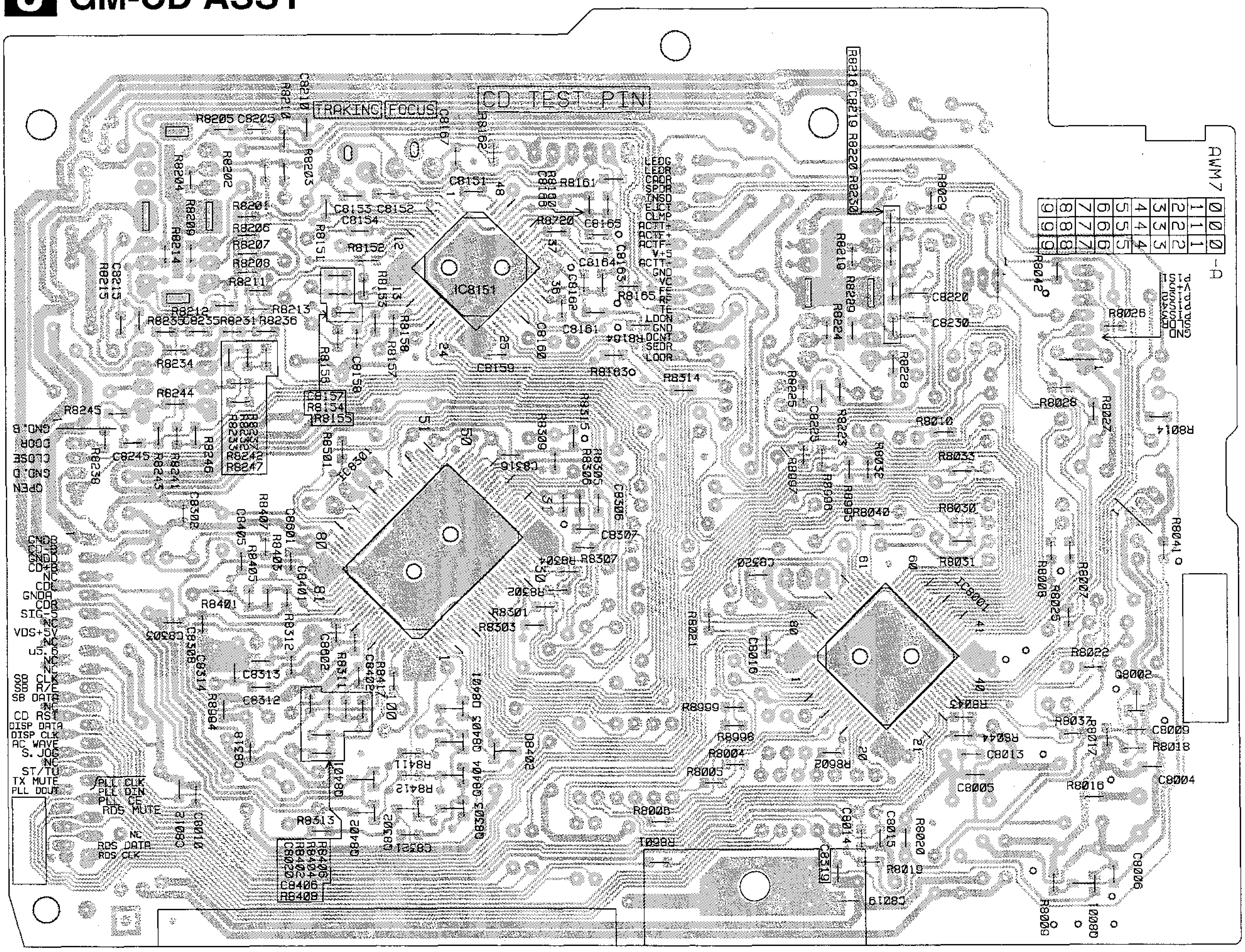
ANP7223-C

www.manualscenter.com

www.manualscenter.com

J GM-CD ASSY

SIDE B



ANP7223-C

IC8151
IC8301
Q8403
Q8401 Q8404
Q8402 Q8303
Q8302

IC8001
Q8002
Q8001

4.5 AF ASSY AND TX CONNECT ASSY

www.manualscenter.com

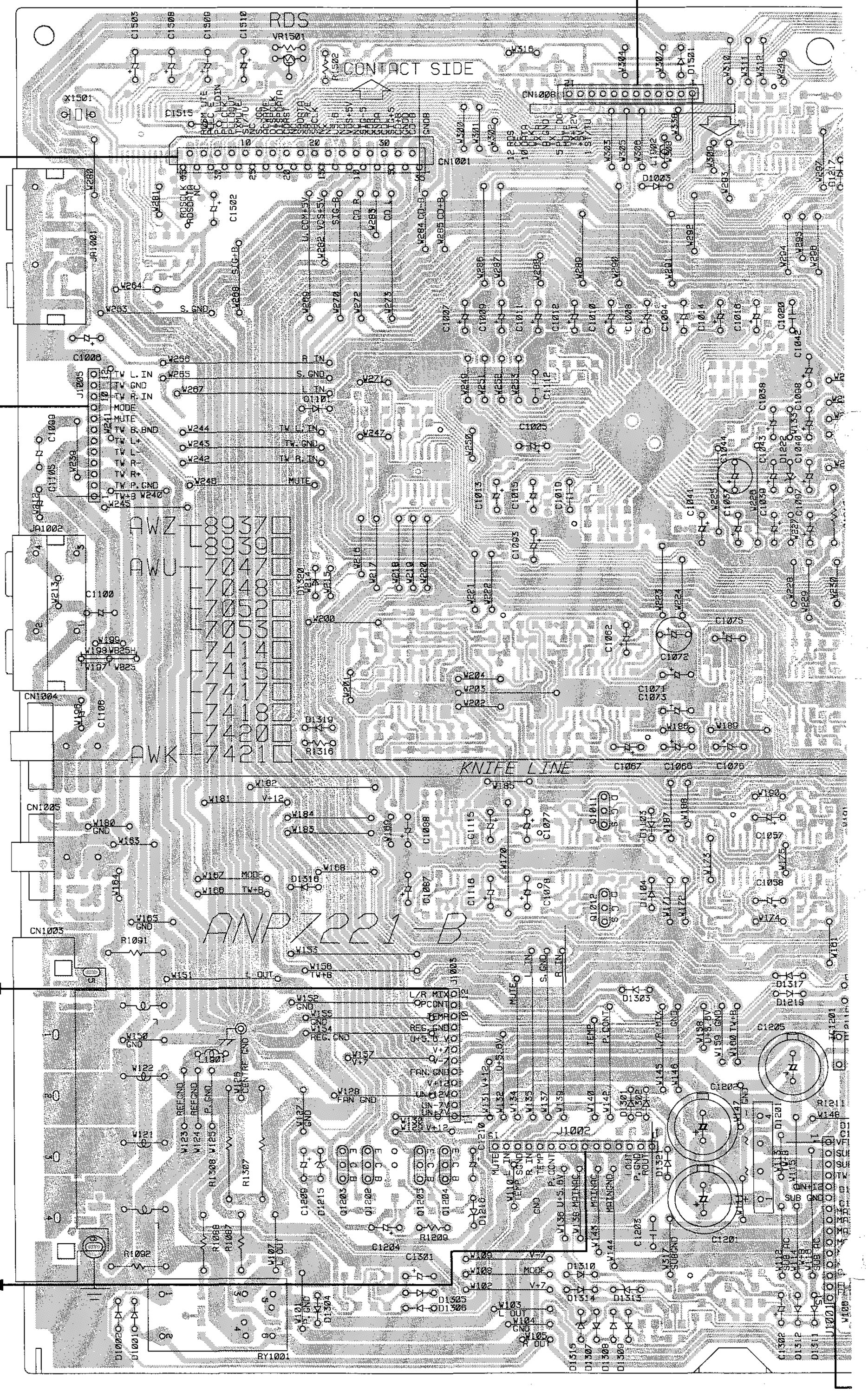
N AF ASSY

J CN8001

Q CN3002

Q CN3001

P CN2001

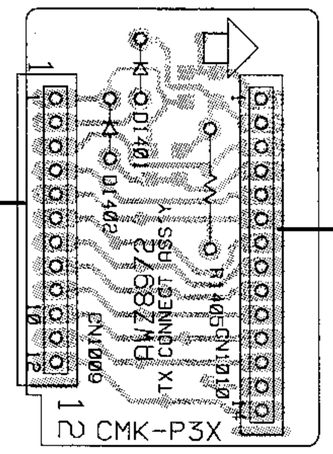


N 46

www.manualscenter.com

SIDE A

TX CONNECT ASSY



ANP7223-C

A CN6201

TO R/P HEAD ON DECK II

VR4203 VR4201 Q4151 Q4152

TO PB HEAD ON DECK I

VR4202 VR4204 Q1011 IC4101 Q1012

T CN5001

X CN5501

U J7001

R J201

IC1201 IC1012

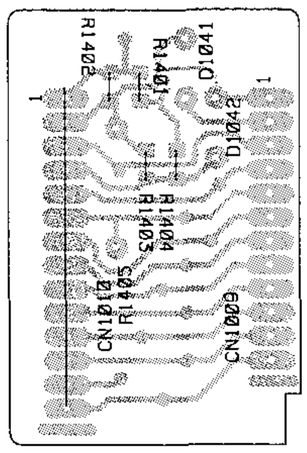
Q1203 Q1202 Q1205 Q1204 Q1201 Q1207

IC1203

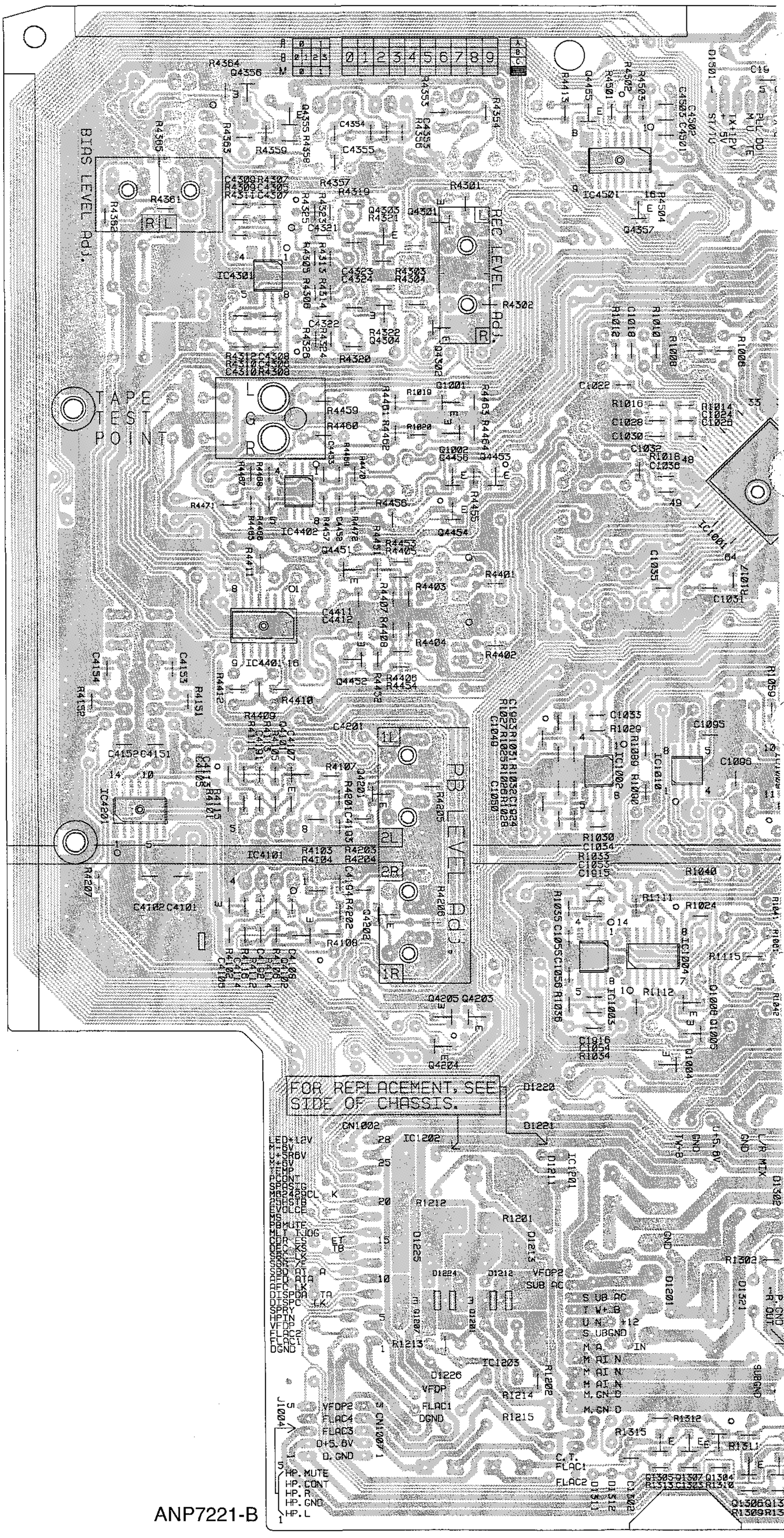
N AF ASSY

SIDE B

O TX CONNECT ASSY



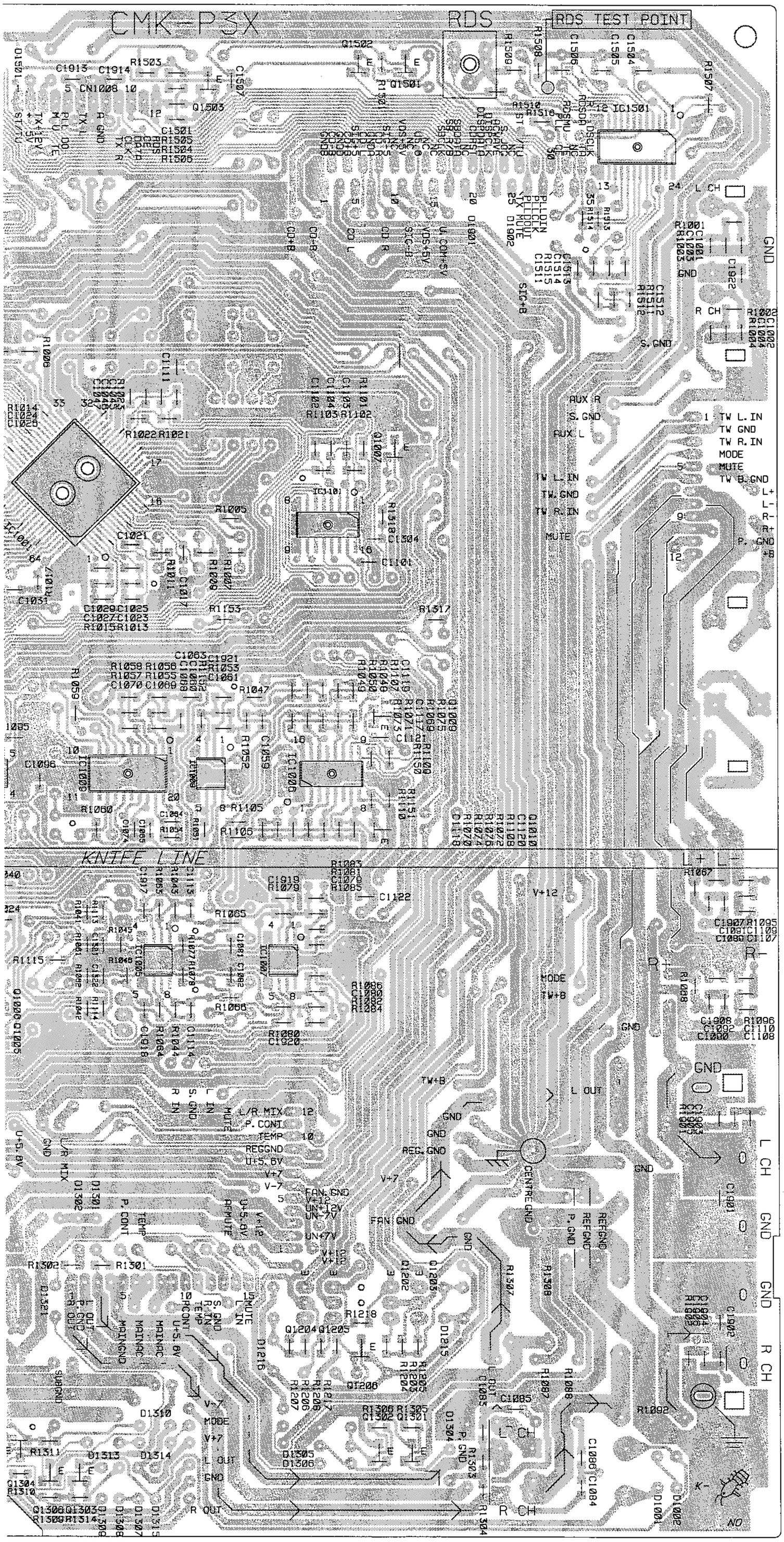
ANP7223-C



ANP7221-B

XR-A800, XR-A700

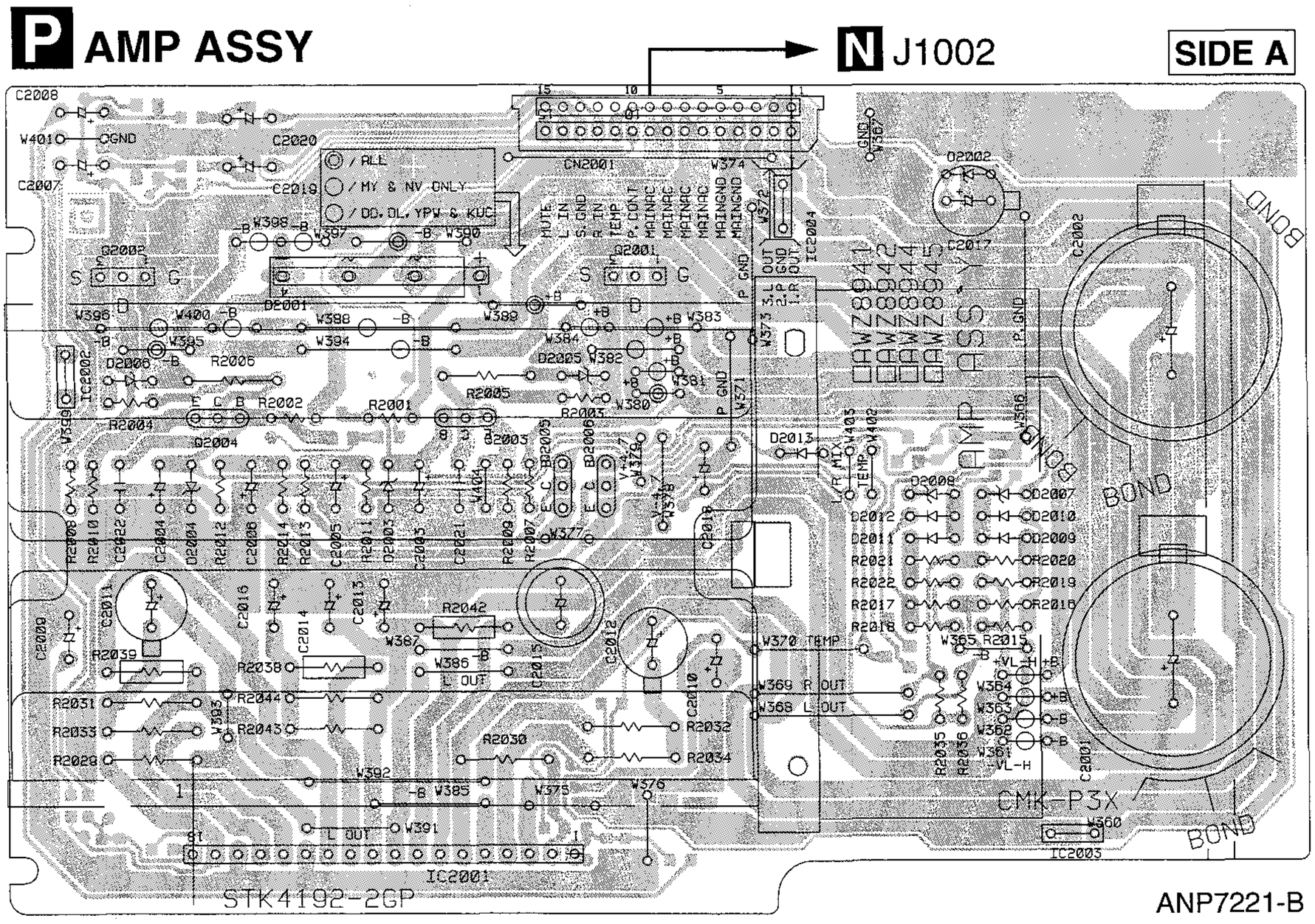
www.manualscenter.com



XR-A800, XR-A700

4.6 AMP ASSY

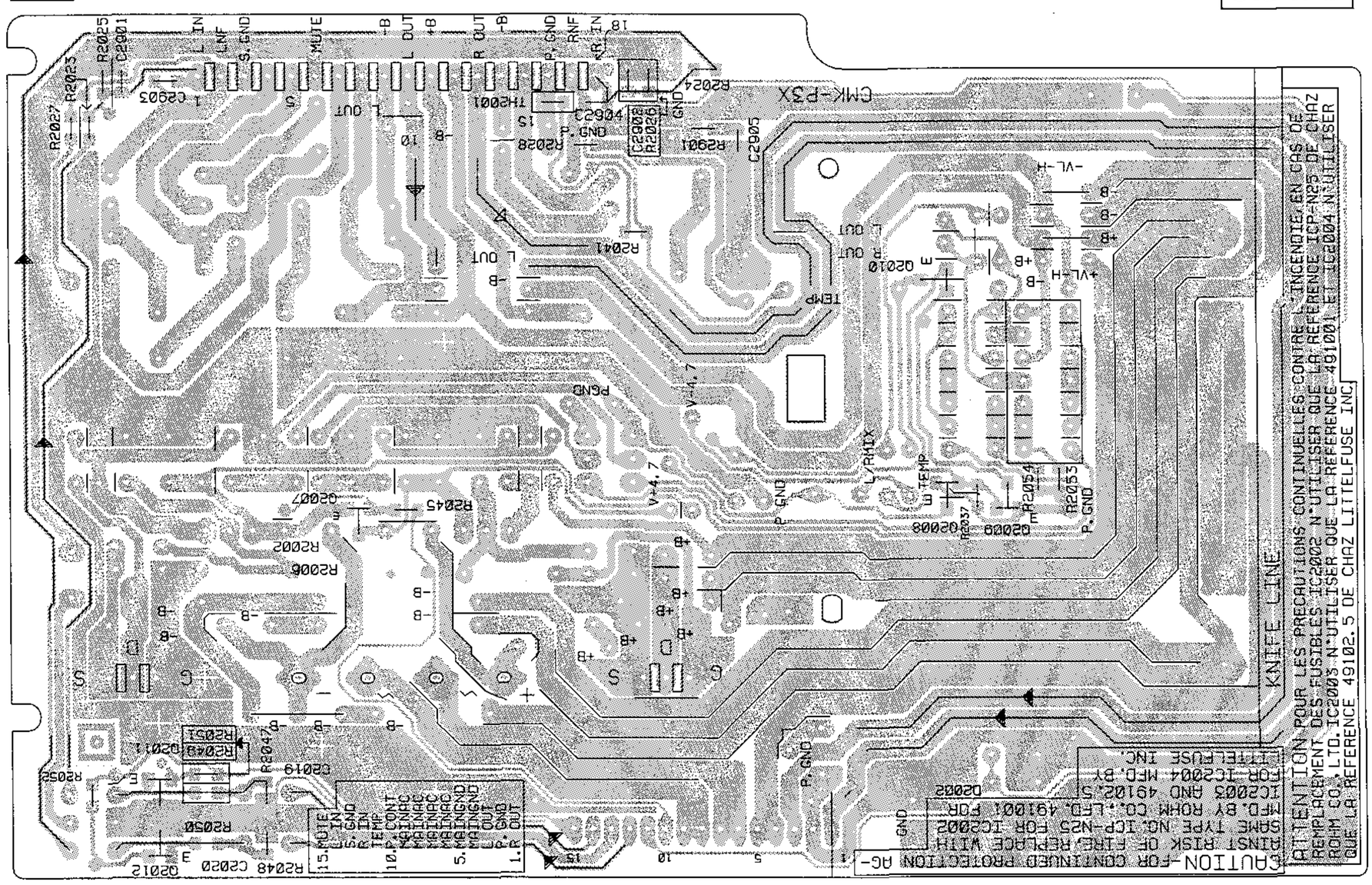
P AMP ASSY



Q2002 Q2003 Q2001 IC2004 IC2003
IC2002 Q2004 IC2001 Q2005
Q2006

P AMP ASSY

SIDE B



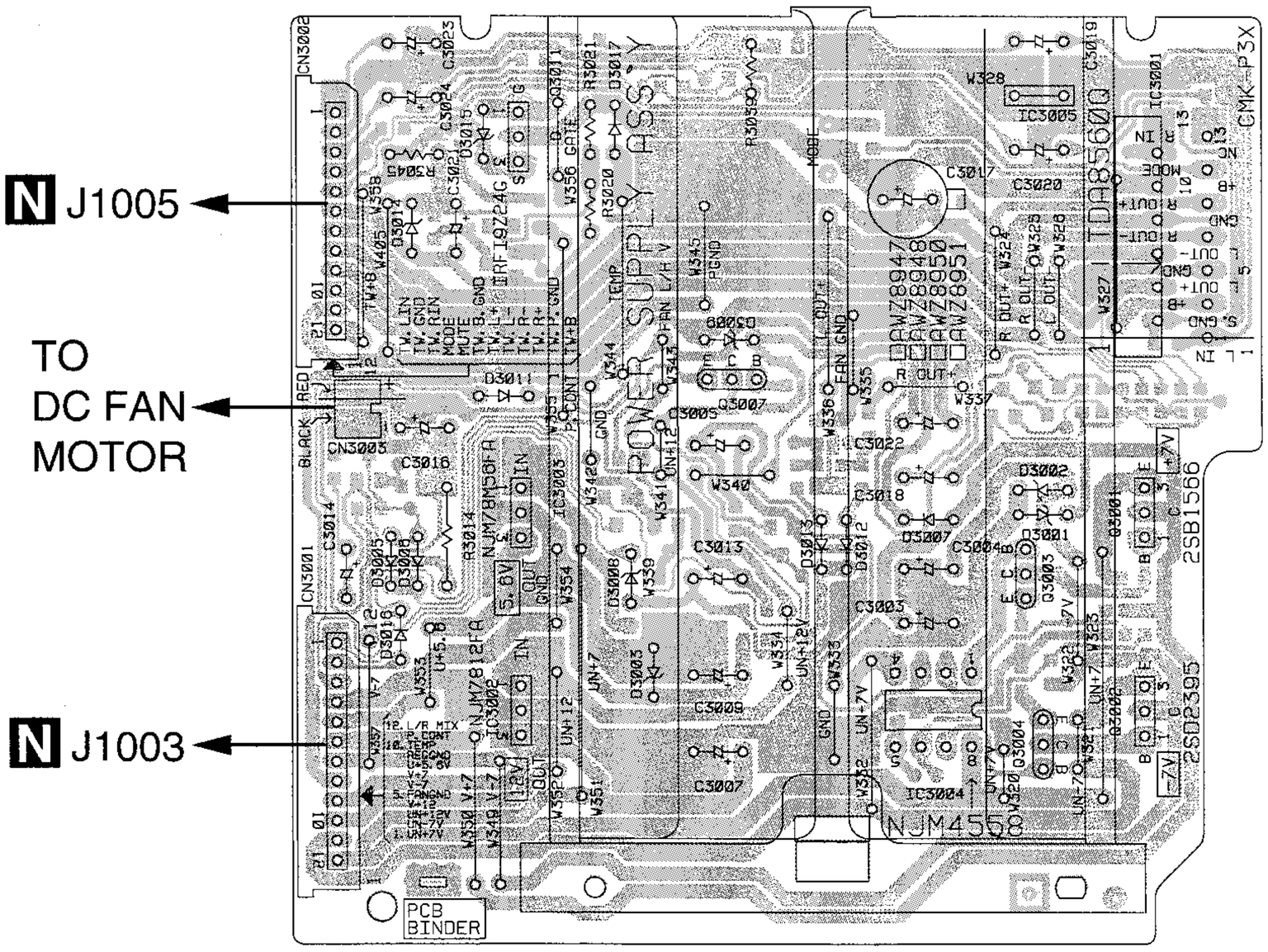
Q2011 Q2007 Q2010
Q2012 Q2008 Q2009

4.7 POWER SUPPLY ASSY

www.manualscenter.com

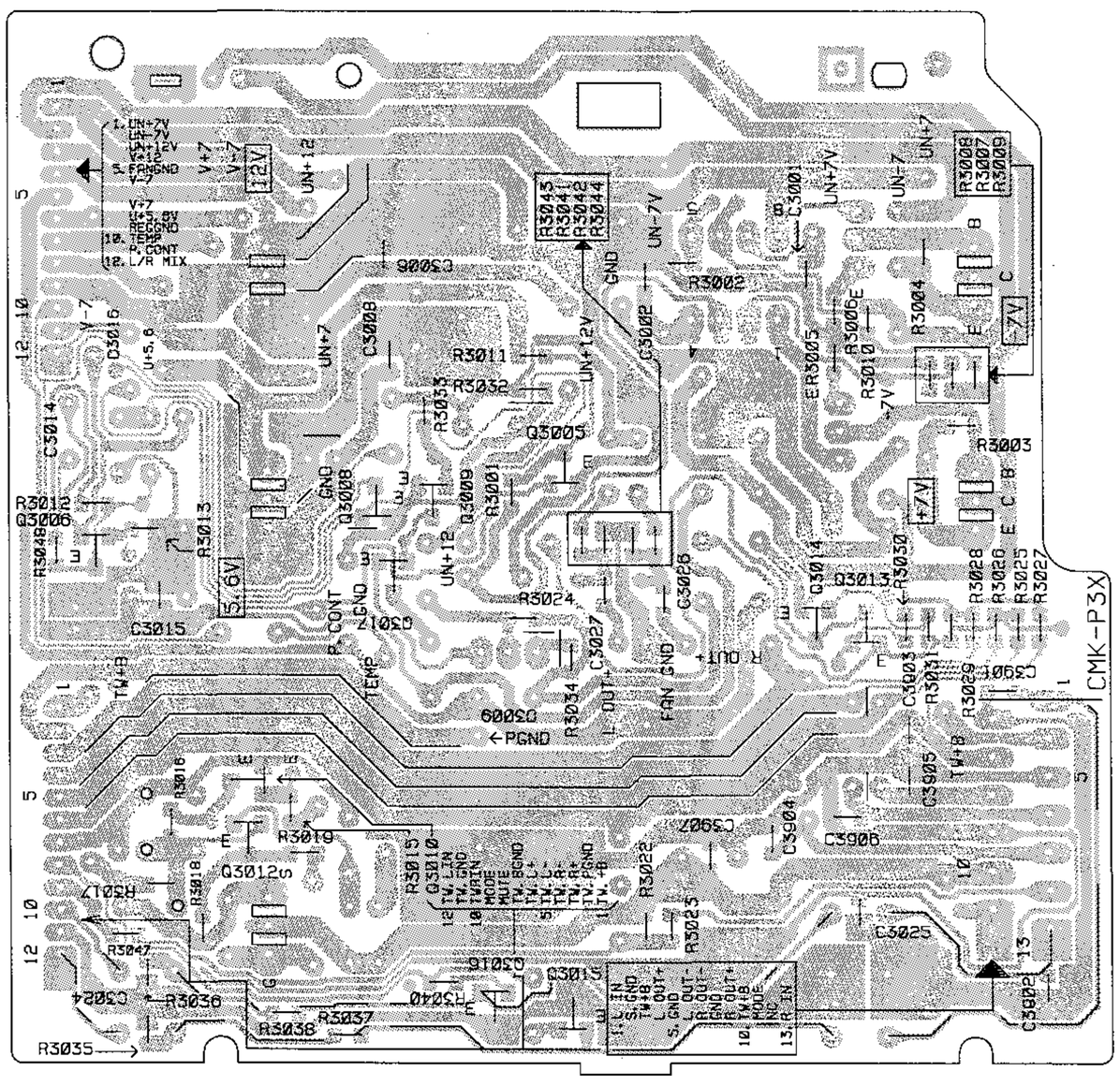
Q POWER SUPPLY ASSY

SIDE A



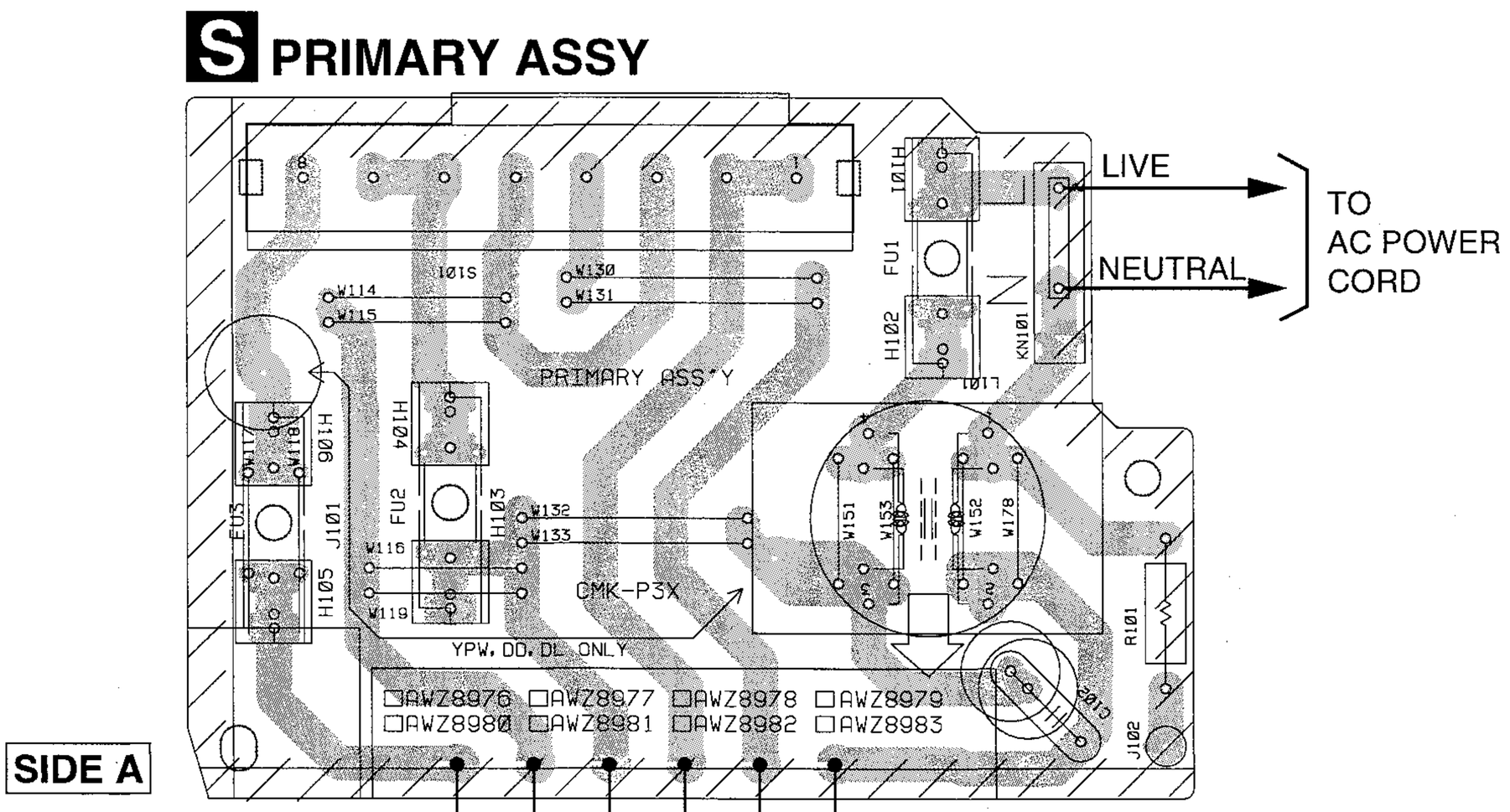
Q POWER SUPPLY ASSY

SIDE B



4.8 SECONDARY ASSY AND PRIMARY ASSY

S PRIMARY ASSY

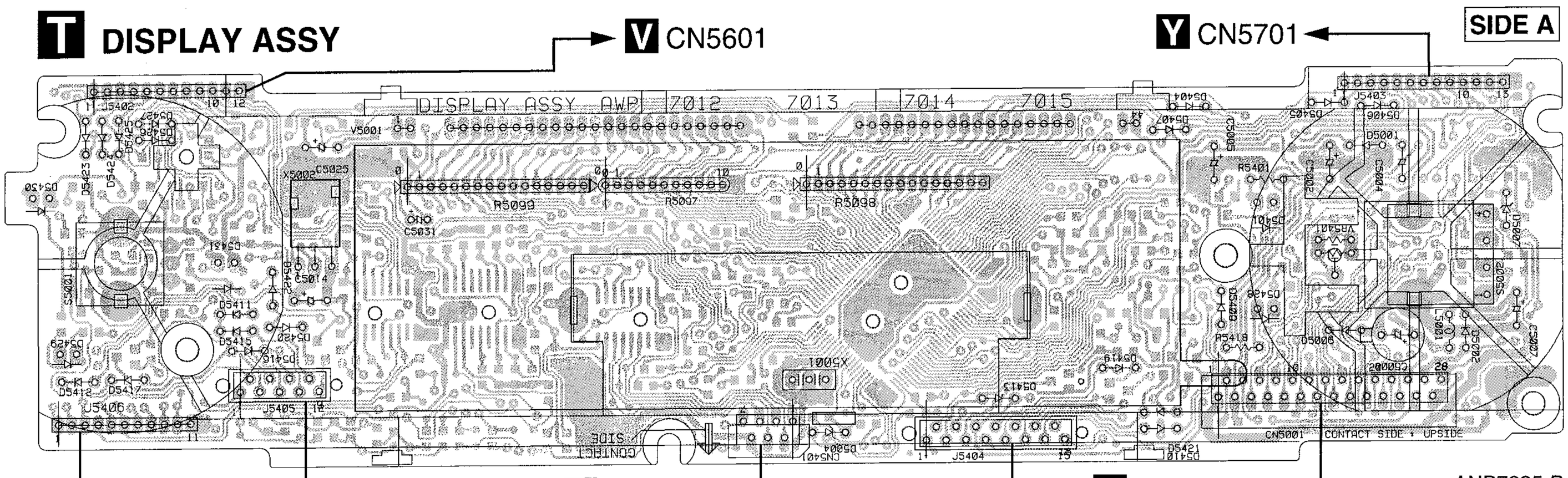


R SECONDARY ASSY

N J1001

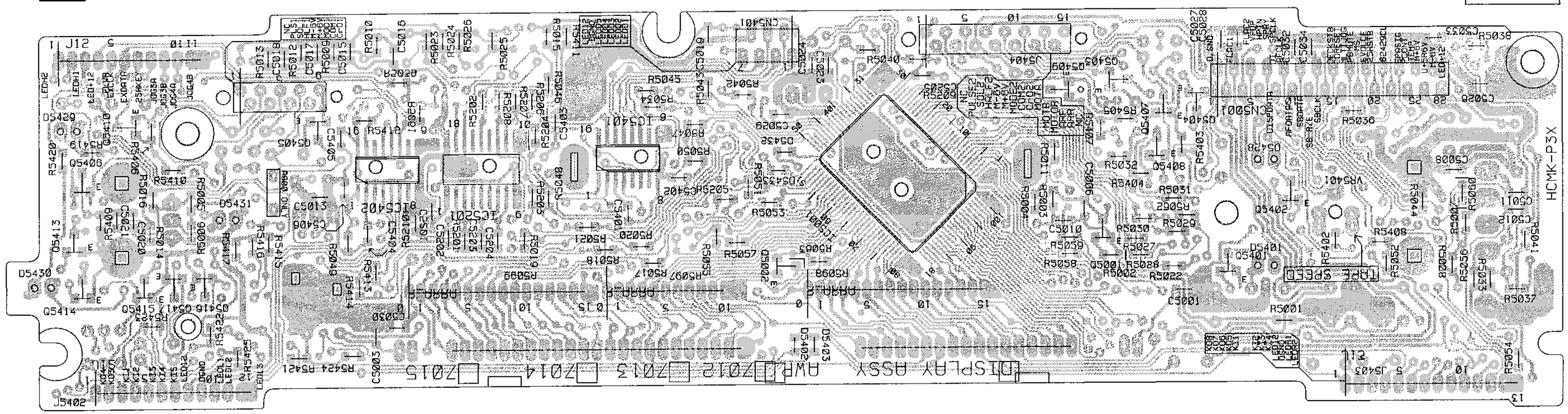
www.manualscenter.com

T DISPLAY ASSY



VR5401

T DISPLAY ASSY



Q5410 Q5416
Q5406 Q5417
Q5413 Q5415
Q5414

Q5405 IC5402 IC5201

IC5401

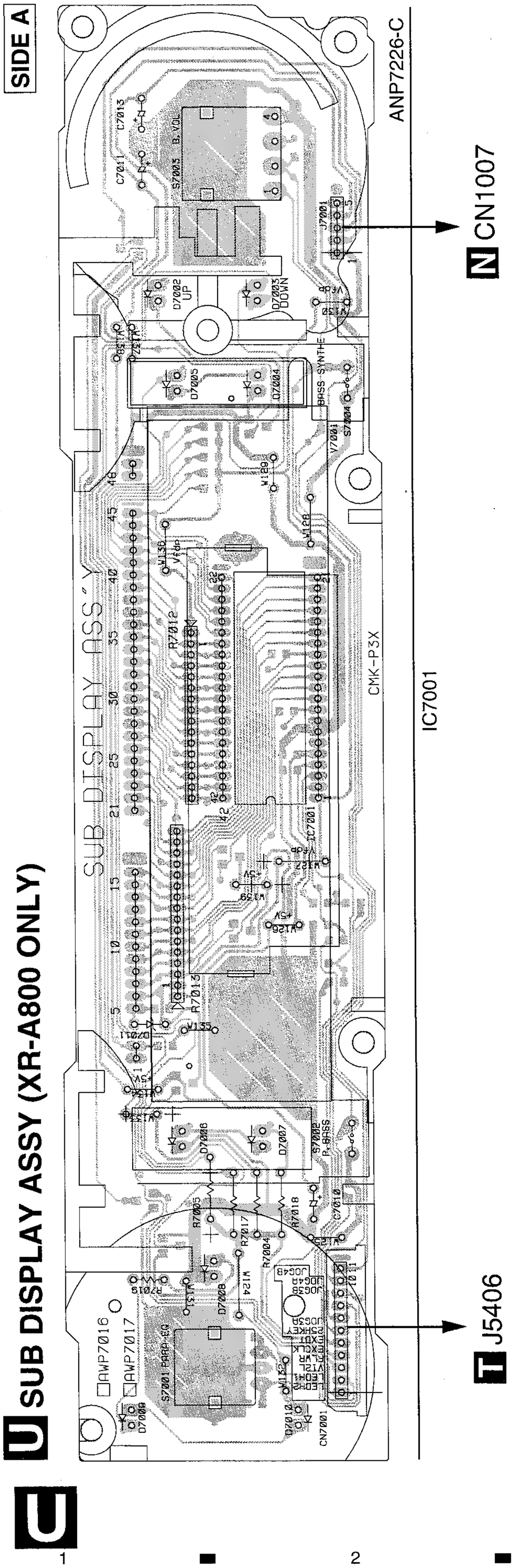
Q5002

IC5001

Q5409 Q5407 Q5401
Q5403 Q5404 Q5402
Q5408
Q5001

www.manualscenter.com

4.10 SUB DISPLAY ASSY



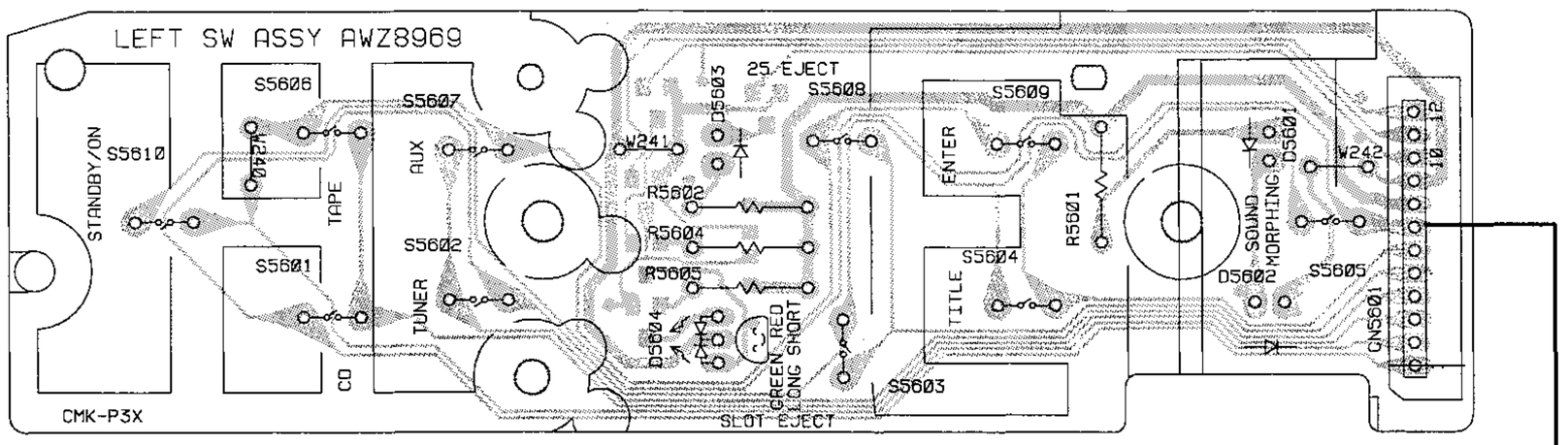
www.manualscenter.com

www.manualscenter.com

4.11 LEFT SW ASSY AND DOOR LED ASSY

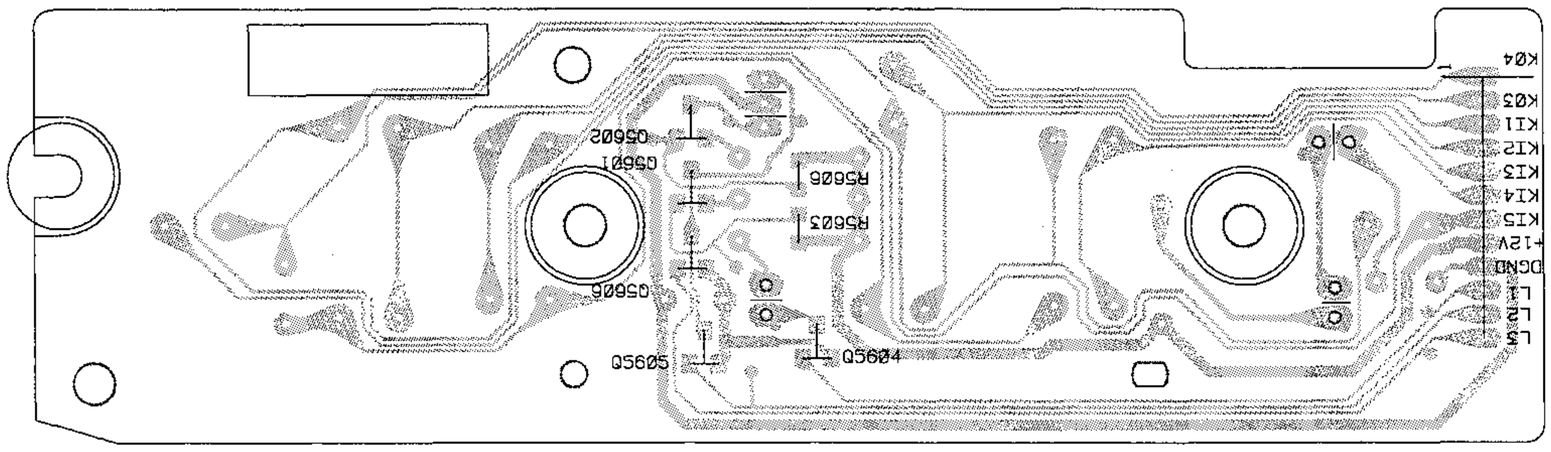
V LEFT SW ASSY

SIDE A



V LEFT SW ASSY

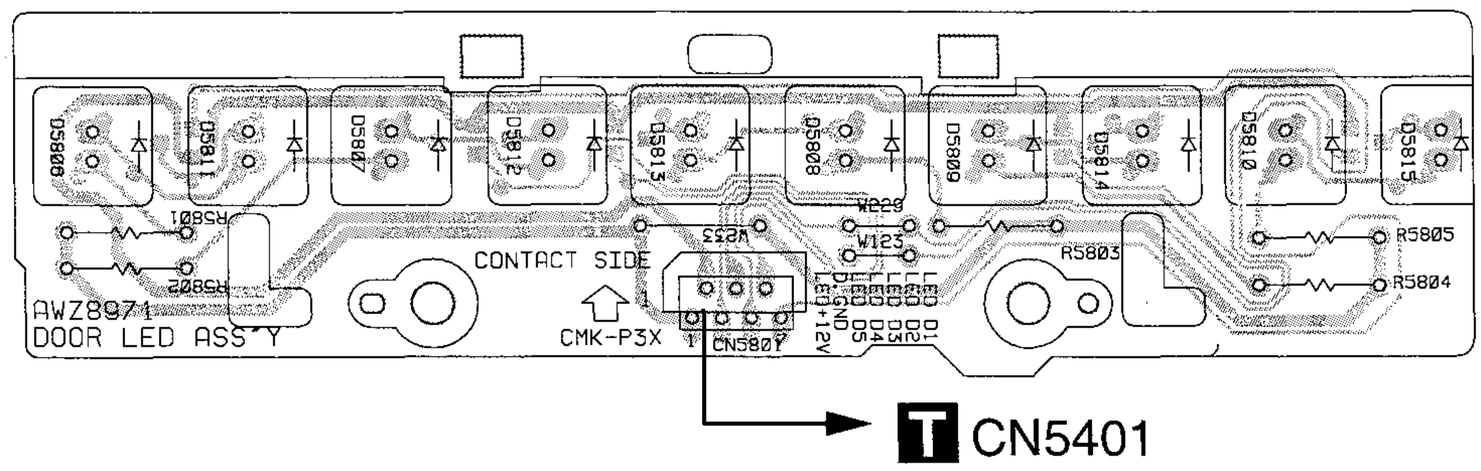
SIDE B



Q5602 Q5604
Q5601
Q5606
Q5605

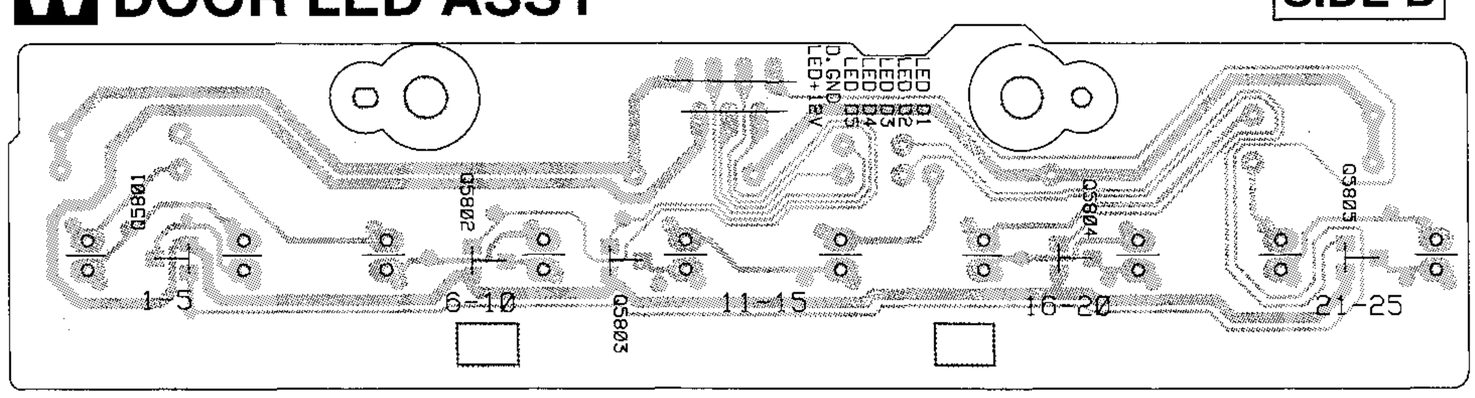
W DOOR LED ASSY

SIDE A



W DOOR LED ASSY

SIDE B



ANP7223-C

Q5801 Q5802 Q5803 Q5804 Q5805

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560	→ *56 x 10^1* →	*561*	*RD1/4PU 5 6 1 J*
47k	→ *47 x 10^3* →	*473*	*RD1/4PU 4 7 3 J*
0.5	→ *R50*		*RN2H R 5 0 K*
1	→ *1R0*		*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k	→ *562 x 10^1* →	*5621*	*RN1/4PC 5 6 2 1 F*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP		MAIN ASSY (for XR-A800)	AWK7417
NSP		MAIN ASSY (for XR-A700)	AWK7414
		├ AF ASSY (for XR-A800)	AWZ8939
		├ AF ASSY (for XR-A700)	AWZ8937
		├ AMP ASSY (for XR-A800)	AWZ8944
		├ AMP ASSY (for XR-A700)	AWZ8941
		├ POWER SUPPLY ASSY (for XR-A800)	AWZ8950
		├ POWER SUPPLY ASSY (for XR-A700)	AWZ8947
NSP		├ SECONDARY ASSY (for XR-A800)	AWZ8956
NSP		└ SECONDARY ASSY (for XR-A700)	AWZ8953
NSP		COMPLEX ASSY (for XR-A800)	AWM7320
NSP		COMPLEX ASSY (for XR-A700)	AWM7316
		├ GM-CD ASSY (for XR-A800) ┐*1	AWZ8962
		├ GM-CD ASSY (for XR-A700) ┘	AWZ8959
NSP		├ HP ASSY (for XR-A800) ┐*2	AWZ8967
NSP		├ HP ASSY (for XR-A700) ┘	AWZ8965
NSP		├ RIGHT SW ASSY	AWZ8968
NSP		├ LEFT SW ASSY	AWZ8969
NSP		├ DOOR SW ASSY	AWZ8970
NSP		├ DOOR LED ASSY	AWZ8971
NSP		├ TX CONNECT ASSY	AWZ8972
NSP		├ DOOR MOTOR ASSY	AWZ8973
NSP		├ HOME SW ASSY	AWZ8975
NSP		├ PRIMARY ASSY (for XR-A800) ┐*3	AWZ8981
NSP		└ PRIMARY ASSY (for XR-A700) ┘	AWZ8977
		DISPLAY ASSY (for XR-A800)	AWP7015
		DISPLAY ASSY (for XR-A700)	AWP7013
		SUB DISPLAY ASSY (XR-A800 only)	AWP7017
		FM/AM TUNER MODULE	AXQ7061
NSP		GS SLOT-IN MECHANISM ASSY	AXA7044
NSP		└ SL MECHANISM ASSY	AWX7031
NSP		├ SENSOR BOARD ASSY	AWZ8560
NSP		├ LED BOARD ASSY	AWZ8561
NSP		└ MOTOR BOARD ASSY	AWZ8744
NSP		GS MECHANISM ASSY	AXA7047
NSP		├ LO MECHANISM BOARD ASSY	AWX7035
NSP		├ SENSOR PCB ASSY	AWZ7836
NSP		├ MOTOR PCB ASSY	AWZ7837
NSP		├ SW PCB ASSY	AWZ7838
NSP		└ MECHA PCB ASSY	AWZ8802
NSP		└ SERVO MECHANISM ASSY GM	AXA7028
NSP		└ MECHANISM BOARD ASSY	PWX1192

N AF ASSY (for XR-A800)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC1203	PROTECTOR (250mA)	AEK7002
⚠	IC1202	PROTECTOR (500mA)	AEK7005
⚠	IC1201	PROTECTOR (1A)	AEK7009
	IC1006		BU4052BCF
	IC1004, IC4201		BU4066BCF
	IC1101, IC4501		BU4094BCF
	IC4401		CXA1101M
	IC1001		LC75394NED
	IC1009		M51134FP
	IC1010		M62429FP
	IC4101		NJM4558DXP
	IC1002, IC1003, IC1005, IC1007, IC1008		NJM4558MD
	IC4301, IC4402		NJM4558MD
	Q1302, Q1303		2SA1037K
	Q1201, Q1207		2SA965
	Q1204, Q1205		2SB1237X
	Q4351-Q4353		2SC1815
	Q4354		2SC2240
	Q1001, Q1002, Q1206, Q1301, Q1307		2SC2412K
	Q4201, Q4202, Q4301, Q4302, Q4453		2SC2412K
	Q1202, Q1203		2SD1858X
	Q1009, Q1010, Q4451, Q4452		2SD2114K
	Q1011, Q1012, Q4151, Q4152		2SK373
	Q4357, Q4455, Q4456		DTA124EK
	Q1004, Q1005, Q1007, Q1306, Q4204		DTA143EK
	Q1305, Q4454		DTC124EK
	Q1006, Q1304, Q4203		DTC143EK
	D1001-D1003, D1101, D1103, D1104		1SS254
	D1212, D1224, D1301-D1312, D1314		1SS254
	D1316-D1321, D4151, D4152		1SS254
	D4201, D4202, D4351-D4354		1SS254
	D4452-D4456		1SS254
⚠	D1201		D2SBA20(B)
	D1222		MTZJ10B
	D1315		MTZJ12B

NOTE *1: Although AWZ8959 and AWZ8962 are different in part number, they have the same service parts.
*2: Although AWZ8965 and AWZ8967 are different in part number, they have the same service parts.
*3: Although AWZ8977 and AWZ8981 are different in part number, they have the same service parts.

Mark	No.	Description	Part No.
	D1225		MTZJ15A
	D1226, D1313		MTZJ3.6A
	D1213		MTZJ33A
	D1215, D1216		MTZJ5.6B
	D1214		MTZJ6.2B
⚠	D1211		S5688G
	D1217-D1221		S5688G

COILS AND FILTERS

	L1001, L1002 (1µH)	ATH-133
	L4351	ATX7002
	L4303, L4304	LTA332J
	L4301, L4302	LTA822J
	F4401, F4402	RTF1217

SWITCHES AND RELAYS

	RY1001	ASR7008

CAPACITORS

⚠	C1203 (0.01µF/AC150V)	ACG1005
	C4319, C4320	CCCSL271K2H
	C1064, C4153, C4154	CCSQCH100D50
	C1035, C1036, C4501-C4503	CCSQCH101J50
	C1033, C1034, C1095, C1096	CCSQCH121J50
	C1001-C1004, C1045-C1047	CCSQCH221J50
	C4453	CCSQCH271J50
	C1113, C1114	CCSQCH471J50
	C4151, C4152	CCSQCH681J50
	C4101, C4102	CCSQCH821J50
	C1099, C1100	CEANP4R7M50
	C1013, C1014, C4405, C4406	CEASR68M50
	C1067, C1207, C1208, C1212, C1213	CEAT100M50
	C4360, C4403, C4404, C4407, C4408	CEAT100M50
	C1041-C1044, C1072, C1087, C1088	CEAT101M16
	C4401, C4402	CEAT101M16
⚠	C1206	CEAT101M2A
⚠	C1211	CEAT101M35
⚠	C1205	CEAT102M35
	C1048, C1066	CEAT1R0M50
	C4451	CEAT220M50
⚠	C1201, C1202	CEAT222M16
	C1204, C4103, C4104, C4311, C4312	CEAT330M16
	C4317, C4318, C4352, C4357, C4358	CEAT330M16
	C1073, C1209, C1210, C4109, C4110	CEAT470M25
	C1214, C1215	CEAT471M25
	C1039, C1040, C1071, C1075-C1078	CEAT4R7M50
	C1115, C1116, C4201, C4202	CEAT4R7M50
	C4301, C4302, C4313, C4314	CEAT4R7M50
	C1005-C1012, C1037, C1038	CEATR33M50
	C1057, C1058, C1062, C1093, C1094	CEJA2R2M50
	C1097, C1098, C1301, C1302	CEJA2R2M50
	C4303, C4304, C4413, C4414, C4454	CEJA2R2M50
	C1015, C1016	CEJAR47M50
	C1019, C1020	CFTYA394J50
	C1112, C4120	CGCYX104M25
	C4361	CKCYB681K2H
	C1029, C1030	CKSQYB122K50
	C4411, C4412	CKSQYB152K50
	C1055, C1056	CKSQYB223K25
	C1079, C1080	CKSQYB224K16
	C4307, C4308	CKSQYB272K50
	C1023, C1024	CKSQYB273K50
	C1069, C4353, C4354	CKSQYB332K50
	C1063, C1070, C4323, C4324	CKSQYB333K50
	C1021, C1022	CKSQYB393K50
	C1025, C1026, C4355	CKSQYB472K50
	C1049, C1050, C1053, C1054	CKSQYB473K25
	C1117-C1120	CKSQYB562K50
	C4305, C4306	CKSQYB563K25
	C1027, C1028, C1031, C1032	CKSQYB682K50
	C4105, C4106	CKSQYB682K50
	C1017, C1018	CKSQYB683K25
	C1060, C1089-C1092	CKSQYF104Z25
	C1068, C1083-C1086, C1101	CKSQYF104Z50
	C1107-C1111, C1303, C1922	CKSQYF104Z50
	C1065, C1074, C1081, C1082	CKSQYF105Z16
	C1121, C1122, C1304, C1321, C1322	CKSQYF105Z16
	C4452	CKSQYF105Z16
	C1059, C1061	CKSQYF224Z25
	C4359	CQHA822J2A
	C4409, C4410	CQMA103J50
	C4356	CQMA223J50

RESISTORS

	R1087, R1088, R1091, R1092	RD1/2PM100J
	R1214, R1215	RD1/2PM101J
	R1216	RD1/2PM151J
	R1212	RD1/2PM272J
	R1201	RD1/2PM682J
⚠	R1210	RD1/2PMF470J
	R1209	RD1/4PU102J
	R4315, R4316	RD1/4PU103J
	R1316	RD1/4PU104J
	R4352	RD1/4PU222J
	R4355	RD1/4PU4R7J
	R4109, R4110, R4317, R4318	RD1/4PU820J
	R4351	RS1LMF151J
	R1211	RS3LMF331J
	R1307, R1308	RS3LMFR22J
	VR4301, VR4302 (4.7kΩ)	RCP1020
	VR4201-VR4204 (22kΩ)	RCP1046
	VR4351, VR4352 (220kΩ)	RCP1049
	Other Resistors	RS1/10S□□□J

OTHERS

	CN1007 5P JUMPER CONNECTOR	52147-0510
	CN1004, CN1005 2P CONNECTOR	5569-02A1
	CN1002 CONNECTOR 28P	9604S-28C
	CN1001 CONNECTOR 35P	9604S-35C
	CN1003 SPEAKER TERMINAL 4P	AKE7030
	CN4003 2P TOP POST (EH)	B2B-EH

Mark	No.	Description	Part No.
	CN4002	3P TOP POST (EH)	B3B-EH
	CN4001	3P TOP POST (RED)	B3B-EH-R
	CN1008	12P PLUG	KM200TA12
	JA1001	2P JACK	VKB1046
	JA1002	2P JACK	VKB1050

N AF ASSY (for XR-A700)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC1203	PROTECTOR (250mA)	AEK7002
⚠	IC1201	PROTECTOR (750mA)	AEK7007
	IC4201		BU4066BCF
	IC4501		BU4094BCF
	IC4401		CXA1101M
	IC1001		LC75394NED
	IC4101		NJM4558DXP
	IC1007, IC1008, IC4301, IC4402		NJM4558MD
	Q1302, Q1303		2SA1037K
	Q1201		2SA965
	Q1204, Q1205		2SB1237X
	Q4351-Q4353		2SC1815
	Q4354		2SC2240
	Q1001, Q1002, Q1206, Q1301, Q1307		2SC2412K
	Q4201, Q4202, Q4301, Q4302, Q4453		2SC2412K
	Q1202, Q1203		2SD1858X
	Q4451, Q4452		2SD2114K
	Q4151, Q4152		2SK373
	Q4357, Q4455, Q4456		DTA124EK
	Q1007, Q1306, Q4204		DTA143EK
	Q1305, Q4454		DTC124EK
	Q1304, Q4203		DTC143EK
	D1001-D1003, D1101, D1212		1SS254
	D1301-D1312, D1316-D1321		1SS254
	D4151, D4152, D4201, D4202		1SS254
	D4351-D4354, D4452-D4456		1SS254
⚠	D1201		D2SBA20(B)
	D1222		MTZJ10B
	D1213		MTZJ33A
	D1215, D1216		MTZJ5.6B
	D1214		MTZJ6.2B
⚠	D1211		S5688G
	D1217-D1221		S5688G

COILS AND FILTERS

Mark	No.	Description	Part No.
	L1001, L1002 (1µH)		ATH-133
	L4351		ATX7002
	L4303, L4304		LTA332J
	L4301, L4302		LTA822J
	F4401, F4402		RTF1217

SWITCHES AND RELAYS

Mark	No.	Description	Part No.
	RY1001		ASR7008

CAPACITORS

Mark	No.	Description	Part No.
⚠	C1203	(0.01µF/AC150V)	ACG1005
	C4319, C4320		CCCSL271K2H
	C4153, C4154		CCSQCH100D50
	C1035, C1036, C4501-C4503		CCSQCH101J50
	C1001-C1004, C1045-C1047		CCSQCH221J50
	C4453		CCSQCH271J50
	C4151, C4152		CCSQCH681J50
	C4101, C4102		CCSQCH821J50
	C1013, C1014, C4405, C4406		CEASR68M50
	C1207, C1208, C4360, C4403, C4404		CEAT100M50
	C4407, C4408		CEAT100M50
	C1041-C1044, C1087, C1088		CEAT101M16
	C4401, C4402		CEAT101M16
⚠	C1206		CEAT101M2A
⚠	C1205		CEAT102M35
	C1048		CEAT1R0M50
	C4451		CEAT220M50
⚠	C1201, C1202		CEAT222M16
	C1204, C4103, C4104, C4311, C4312		CEAT330M16
	C4317, C4318, C4352, C4357, C4358		CEAT330M16
	C1209, C1210, C4109, C4110		CEAT470M25
	C1039, C1040, C4201, C4202		CEAT4R7M50
	C4301, C4302, C4313, C4314		CEAT4R7M50
	C1005-C1012, C1037, C1038		CEATR33M50
	C1093, C1094, C1097, C1098		CEJA2R2M50
	C1301, C1302, C4303, C4304		CEJA2R2M50
	C4413, C4414, C4454		CEJA2R2M50
	C1015, C1016		CEJAR47M50
	C1019, C1020		CFTYA394J50
	C1112, C4120		CGCYX104M25
	C4361		CKCYB681K2H
	C1029, C1030		CKSQYB122K50
	C4411, C4412		CKSQYB152K50
	C1079, C1080		CKSQYB184K16
	C4307, C4308		CKSQYB272K50
	C1023, C1024		CKSQYB273K50
	C4353, C4354		CKSQYB332K50
	C4323, C4324		CKSQYB333K50
	C1021, C1022		CKSQYB393K50
	C1025, C1026, C4355		CKSQYB472K50
	C4305, C4306		CKSQYB563K25
	C1027, C1028, C1031, C1032		CKSQYB682K50
	C4105, C4106		CKSQYB682K50
	C1017, C1018		CKSQYB683K25
	C1083-C1086, C1111, C1303, C1922		CKSQYF104Z50
	C1304, C4452		CKSQYF105Z16
	C1081, C1082		CKSQYF334Z16
	C4359		CQHA822J2A
	C4409, C4410		CQMA103J50
	C4356		CQMA223J50

RESISTORS

Mark	No.	Description	Part No.
	R1087, R1088, R1091, R1092		RD1/2PM100J
	R1201		RD1/2PM682J
⚠	R1210		RD1/2PMF470J
	R1209		RD1/4PU102J
	R4315, R4316		RD1/4PU103J
	R1316		RD1/4PU104J

Mark	No.	Description	Part No.
	R4352		RD1/4PU222J
	R4355		RD1/4PU4R7J
	R4109, R4110, R4317, R4318		RD1/4PU820J
	R4351		RS1LMF151J
	R1211		RS3LMF271J
	R1307, R1308		RS3LMFR22J
	VR4301, VR4302 (4.7kΩ)		RCP1020
	VR4201-VR4204 (22kΩ)		RCP1046
	VR4351, VR4352 (220kΩ)		RCP1049
	Other Resistors		RS1/10S□□□J

OTHERS

CN1002	CONNECTOR 28P	9604S-28C
CN1001	CONNECTOR 35P	9604S-35C
CN1003	SPEAKER TERMINAL 4P	AKE7030
CN4003	2P TOP POST (EH)	B2B-EH
CN4002	3P TOP POST (EH)	B3B-EH
CN4001	3P TOP POST (RED)	B3B-EH-R
CN1008	12P PLUG	KM200TA12
JA1001	2P JACK	VKB1046
JA1002	2P JACK	VKB1050

P AMP ASSY

SEMICONDUCTORS

⚠	IC2003	PROTECTOR (1A)	AEK7009
⚠	IC2004	PROTECTOR (2.5A)	AEK7014
⚠	IC2002	IC PROTECTOR	ICP-N25
⚠	IC2001		STK4192-2GP
	Q2009		2SA1037K
	Q2004, Q2006		2SA992
	Q2003, Q2005		2SC1845
	Q2007, Q2008, Q2010		2SC2412K
	Q2011, Q2012		2SD2114K
⚠	Q2002		IRF540A
⚠	Q2001		IRF9540A
	D2009-D2013		1SS254
⚠	D2001		D3SBA20(B)
⚠	D2005, D2006		MTZJ18C
	D2007, D2008 (for XR-A800)		MTZJ27C
	D2007, D2008 (for XR-A700)		MTZJ24B
	D2003, D2004		MTZJ4.7B
	D2002		MTZJ5.6B
	TH2001		AEX7002

CAPACITORS

⚠	C2001, C2002 (3300µF/71V)	ACH7076
	C2015	CEANP470M50
	C2013, C2014, C2016	CEAT100M50
	C2003-C2006, C2018	CEAT101M16
	C2011, C2012, C2017	CEAT101M35
	C2009, C2010	CEAT220M50
	C2007, C2008, C2019, C2020	CEJA2R2M50
	C2021, C2022	CKCYB102K2H
	C2901, C2902	CKSQYB272K50

Mark	No.	Description	Part No.

RESISTORS

	R2031-R2034		RD1/2PM332J
	R2029, R2030		RD1/2PM563J
⚠	R2043, R2044		RD1/2PMF222J
⚠	R2039, R2042		RD1/4LMF101J
⚠	R2038		RD1/4LMF102J
⚠	R2005, R2006		RFA1/4PS101J
	R2009, R2010		RN1/4PC1001F
	R2011, R2012 (for XR-A800)		RN1/4PC2701F
	R2011, R2012 (for XR-A700)		RN1/4PC2401F
	R2007, R2008 (for XR-A800)		RN1/4PC8201F
	R2007, R2008 (for XR-A700)		RN1/4PC7501F
	R2023, R2024		RS1/10S0R0J
	R2041, R2045, R2049, R2050		RS1/10S102J
	R2051, R2052		RS1/10S103J
	R2047, R2048		RS1/10S104J
	R2037		RS1/10S183J
	R2027, R2028		RS1/10S561J
	R2025, R2026		RS1/10S563J
	Other Resistors		RD1/4PU□□□J

Q POWER SUPPLY ASSY (for XR-A800)

SEMICONDUCTORS

⚠	IC3005	IC PROTECTOR	ICP-N25
	IC3004		NJM4558DXP
⚠	IC3002		NJM7812FA
⚠	IC3003		NJM78M56FA
⚠	IC3001		TDA8560Q
	Q3013, Q3014		2SA1037K
	Q3004		2SA1267
⚠	Q3001		2SB1566
	Q3006, Q3009, Q3010, Q3012		2SC2412K
	Q3003		2SC3199
	Q3007		2SD1858X
	Q3015, Q3016		2SD2114K
⚠	Q3002		2SD2395
	Q3017		DTA143EK
	Q3008		DTC114EK
	Q3005		DTC124EK
⚠	Q3011		IRFI9Z24G
	D3005-D3007, D3011-D3013		1SS254
	D3016, D3017		1SS254
	D3009, D3015		MTZJ18C
	D3014		MTZJ6.8B
	D3001		MTZJ8.2C
⚠	D3002, D3003		MTZJ8.2C

CAPACITORS

	C3022	CEAT100M50
	C3018	CEAT101M16
	C3017	CEAT101M35
	C3005, C3013	CEAT1R0M50
	C3003, C3004	CEAT470M25
	C3016	CEJA220M35
	C3007, C3009, C3014	CEJA2R2M50
	C3021	CEJA470M16

Mark	No.	Description	Part No.
	C3019, C3020		CEJAR47M50
	C3025		CKSQYB102K50
	C3006, C3008, C3015		CKSQYF104Z50
	C3026, C3027		CKSQYF105Z16
	C3001, C3002		CKSQYF473Z50
	C3023, C3024		CQMA103J50

RESISTORS

	R3014	RD1/2PM330J
	R3039	RD1/4PU103J
	R3045	RD1/4PU472J
	R3020	RN1/4PC1001F
	R3021	RN1/4PC1601F
	Other Resistors	RS1/10S□□□J

OTHERS

	PCB BINDER	DEF1012

Q POWER SUPPLY ASSY (for XR-A700)

SEMICONDUCTORS

	IC3004	NJM4558DXP
⚠	IC3002	NJM7812FA
⚠	IC3003	NJM78M56FA
	Q3004	2SA1267
⚠	Q3001	2SB1566
	Q3006, Q3009	2SC2412K
	Q3003	2SC3199
	Q3007	2SD1858X
⚠	Q3002	2SD2395
	Q3017	DTA143EK
	Q3008	DTC114EK
	Q3005	DTC124EK
	D3005-D3007, D3016	1SS254
	D3009	MTZJ18C
	D3001	MTZJ8.2C
⚠	D3002, D3003	MTZJ8.2C

CAPACITORS

	C3022	CEAT100M50
	C3005, C3013	CEAT1R0M50
	C3003, C3004	CEAT470M25
	C3016	CEJA220M35
	C3007, C3009, C3014	CEJA2R2M50
	C3006, C3008, C3015	CKSQYF104Z50
	C3001, C3002	CKSQYF473Z50

RESISTORS

	R3014	RD1/2PM330J
	Other Resistors	RS1/10S□□□J

OTHERS

	PCB BINDER	DEF1012

R SECONDARY ASSY

SEMICONDUCTORS

⚠	IC204 PROTECTOR (3.15A)	AEK7016
⚠	IC202 PROTECTOR (5A) (for XR-A800)	AEK7019
⚠	IC202 PROTECTOR (2.5A) (for XR-A700)	AEK7014
⚠	IC201 PROTECTOR (5A) (for XR-A800)	AEK7046
⚠	IC201 PROTECTOR (2.5A) (for XR-A700)	AEK7049
⚠	IC203 PROTECTOR (3.15A)	AEK7051
⚠	D201 (XR-A800 only)	D2SBA20(B)
⚠	D202, D203	S5688G

CAPACITORS

⚠	C202 (XR-A800 only)	CEAT332M35

J GM-CD ASSY

SEMICONDUCTORS

	IC8151	CXA1372BQ
	IC8301	CXD2519Q
	IC8203	LA6517
	IC8201, IC8202	LA6520
	IC8001	PD4859A
	Q8002	2SC2712
	Q8401, Q8402	2SD2114K
	Q8301	2SK373
	Q8302	DTA124EK
	Q8403, Q8404	DTA143EK
	Q8001, Q8303	DTC143EK
	D8001, D8003, D8004, D8301-D8303	1SS254
	D8401, D8402	DAN202K
	D8219	MTZJ6.2B/C

COILS AND FILTERS

	L8301	LAU1R2J
	L8001	LAU220J

CAPACITORS

	C8003 (0.047F/5.5V)	ACH1246
	C8313	CCSQCH100D50
	C8009, C8014-C8016, C8319, C8321	CCSQCH101J50
	C8401, C8402	CCSQCH151J50
	C8314	CCSQCH220J50
	C8167	CCSQCH561J50
	C8002	CEAT100M50
	C8007	CEAT221M6R3
	C8403, C8404	CEAT2R2M50
	C8017	CEAT330M16
	C8201, C8202	CEAT331M16
	C8001	CEAT470M16
	C8301	CEAT471M6R3
	C8155, C8156	CEAT4R7M50
	C8008, C8309	CEATR47M50
	C8317	CGCYF104Z25
	C8010, C8012, C8164, C8312, C8320	CKSQYB102K50
	C8151, C8158, C8162, C8316, C8602	CKSQYB103K50
	C8306	CKSQYB152K50
	C8160, C8163, C8166	CKSQYB333K50

Mark	No.	Description	Part No.
	C8165		CKSQYB472K50
	C8004-C8006, C8307		CKSQYB473K50
	C8405, C8406		CKSQYB681K50
	C8159, C8205, C8210, C8215		CKSQYF103Z50
	C8219, C8220, C8225, C8230, C8235		CKSQYF103Z50
	C8245		CKSQYF103Z50
	C8019, C8152-C8154, C8157, C8161		CKSQYF104Z50
	C8303, C8318		CKSQYF104Z50
RESISTORS			
	R8248		RD1/4PU100J
	R8001-R8003, R8011-R8013		RD1/4PU102J
	R8035, R8036		RD1/4PU102J
	R8015		RD1/4PU203J
	R8409, R8410		RD1/4PU221J
	R8023, R8024, R8221, R8222		RD1/4PU473J
	R8226, R8227		RD1/4PU473J
	VR8151, VR8152		RCP1103
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN8005	5P JUMPER CONNECTOR	52147-0510
	CN8002	CONNECTOR 22P	HLEM22S-1
	CN8001	CONNECTOR 35P	HLEM35S-1
	CN8201	6P JACK	VKN-004
	KN8001	EARTH METAL FITTING	VNF1084
	X8301	CRYSTAL RESONATOR (33.8688MHz)	ASS7000
	X8001	CERAMIC RESONATOR (4.19MHz)	VSS1014

X HP ASSY

SEMICONDUCTORS

Q5501-Q5504		2SD2114K

CAPACITORS

C5504, C5505		CEANP4R7M50
C5503		CKSQYF104Z50

RESISTORS

R5505, R5506		RS3LMF331J
Other Resistors		RS1/10S□□□J

OTHERS

	JACK	AKN7003

Y RIGHT SW ASSY

SEMICONDUCTORS

Q5701, Q5702		DTC143EK
D5701-D5704 LED (PURE GREEN)		SLP7118C51H

SWITCHES AND RELAYS

S5701-S5718		ASG1034

RESISTORS

All Resistors		RD1/4PM□□□J

Mark	No.	Description	Part No.
OTHERS			
	CN5701	13P JUMPER CONNECTOR	52151-1310

V LEFT SW ASSY

SEMICONDUCTORS

Q5601, Q5602		DTA143EK
Q5604-Q5606		DTC143EK
D5601-D5603 LED (PURE GREEN)		SLP7118C51H
D5604 LED (RED/GREEN)		VRBG3312X

SWITCHES AND RELAYS

S5601-S5610		ASG1034

RESISTORS

R5603, R5606		RS1/10S473J
Other Resistors		RD1/4PM□□□J

L DOOR SW ASSY

SWITCHES AND RELAYS

S8002		DSG1016
S8003		PSG1008

W DOOR LED ASSY

SEMICONDUCTORS

Q5801-Q5805		DTC143EK
D5809, D5814 LED (GREEN)		SLP3118C51H
D5808, D5813 LED (YELLOW)		SLP4118C51H
D5807, D5812 LED (ORANGE)		SLP6118C51H
D5810, D5815 LED (PURE GREEN)		SLP7118C51H
D5806, D5811 LED (RED)		SLP9118C51H

RESISTORS

All Resistors		RD1/4PM□□□J

OTHERS

CN5801	CONNECTOR 7P	52045-0745

O TX CONNECT ASSY

SEMICONDUCTORS

D1401, D1402		1SS254

RESISTORS

R1405		RD1/4PM473J
Other Resistors		RS1/10S□□□J

OTHERS

CN1010	14P PLUG	KM200IB14
CN1009	12P SOCKET	KP200TA12L

M DOOR MOTOR ASSY

OTHERS

J8009	3P JUMPER WIRE	D20PWW0310E

Mark	No.	Description	Part No.
K		**HOME SW ASSY**	
		SWITCHES AND RELAYS	
	S8001		DSG1048
S		**PRIMARY ASSY**	
		COILS AND FILTERS	
⚠	L101		ATF1136
		SWITCHES AND RELAYS	
⚠	S101		AKX7006
		CAPACITORS	
⚠	C102 (0.01µF/AC250V)		ACG7020
		OTHERS	
	H101-H106	FUSE CLIP	AKR1004
T		**DISPLAY ASSY**	
		SEMICONDUCTORS	
	IC5201 (for XR-A800)		BA3834F
	IC5201 (for XR-A700)		BA3835F
	IC5401, IC5402		BU4094BCF
	IC5001		PDG205A
	Q5407		2SB1197K
	Q5001, Q5002		2SC2412K
	Q5409, Q5410		2SD1781K
	Q5403-Q5406		DTA124EK
	Q5408		DTC124EK
	Q5401, Q5402, Q5413-Q5417		DTC143EK
	D5001, D5404-D5407, D5409-D5413		1SS254
	D5422 (XR-A800 only)		1SS254
	D5415-D5417, D5419-D5421		1SS254
	D5423-D5427		1SS254
	D5402, D5403, D5432, D5433		1SS355
	D5006, D5007		MTZJ5.1B
	D5004		MTZJ6.2B
	D5002		S5688G
	D5401, D5428-D5431		SLP7118C51H
		COILS AND FILTERS	
	L5001		LAU220J
		SWITCHES AND RELAYS	
	S5002		ASX7012
	S5001		ASX7017
		CAPACITORS	
	C5029, C5030		CCSQCH101J50
	C5205		CCSQCH471J50
	C5031		CEAL220M35
	C5025		CEAT100M50
	C5002		CEJA100M50
	C5005		CEJA1R0M50
	C5009		CEJA221M10
	C5007, C5014		CEJA470M16
	C5004		CEJAR47M50
	C5006, C5032-C5034		CKSQYB102K50
	C5015-C5018 (XR-A800 only)		CKSQYB103K50
	C5011-C5013		CKSQYB103K50
	C5020, C5021, C5023		CKSQYB103K50
	C5403, C5405		CKSQYB333K50
	C5019 (XR-A800 only)		CKSQYB473K50
	C5001, C5003, C5027, C5028		CKSQYB473K50
	C5008, C5010, C5026, C5201-C5204		CKSQYF104Z50
	C5024		CKSQYF105Z16
		RESISTORS	
	R5097		RA10T473J
	R5098, R5099		RA15T473J
	R5401, R5418		RD1/4PU681J
	VR5401 (2.2kΩ)		RCP1019
	Other Resistors		RS1/10S□□□J
		OTHERS	
		CABLE HOLDER 9P	51063-0905
		CABLE HOLDER 15P	51063-1505
	CN5401	CONNECTOR 7P	52045-0745
	CN5001	CONNECTOR 28P	9607S-28F
	V5001	FL TUBE	AAV7044
	X5001	CERAMIC RESONATOR (8MHz)	EFOEC8004A4
		REMOTE RECEIVER UNIT	GP1U28X
		FL HOLDER	VNF1087
U		**SUB DISPLAY ASSY (XR-A800 only)**	
		SEMICONDUCTORS	
	IC7001		LC7570
	Q7004, Q7006, Q7007		2SC2712
	Q7003		DTA143EK
	Q7005		DTC124EK
	Q7001, Q7002		DTC143EK
	D7004-D7007		MBG5074X
	D7002, D7003, D7008-D7010		SLP7118C51H
		SWITCHES AND RELAYS	
	S7002, S7004		ASG1034
	S7003		ASX7012
	S7001		ASX7017
		CAPACITORS	
	C7006-C7008		CCSQCH221J50
	C7010		CEAT100M50
	C7011, C7013		CEJA100M35
	C7001-C7005		CKSQYB102K50
	C7012, C7014		CKSQYB473K50
	C7009		CKSQYF104Z50
		RESISTORS	
	R7012, R7013		RA15T473J
	R7017, R7018		RD1/4PM561J
	R7004, R7005		RD1/4PM681J
	R7019		RD1/4PU391J
	Other Resistors		RS1/10S□□□J

Mark	No.	Description	Part No.
OTHERS			
	V7001	FL TUBE	AAV7043

A FM/AM TUNER MODULE

SEMICONDUCTORS

IC6201	LA1832ML
IC6202	LC72131MD
Q6402	2SC2223
Q6203	2SC2705
Q6201, Q6202	2SC2712
Q6214, Q6403	2SC2714
Q6404	2SK302
Q6401	3SK194
Q6204	DTA124ES
Q6205	DTC124EK
D6202	1SS254
D6401, D6402	1T363

COILS AND FILTERS

L6404	ATC1003
L6401	ATC1020
L6402	ATC1021
F6204	ATF-107
F6203	ATF-119
F6401	ATF-155
F6206	ATF7008
F6202	ATF7011
L6206, L6208, L6403	LAU2R2J

TRANSFORMERS

T6201	ATB7008
T6401	ATE7002

CAPACITORS

C6208	CCSQCH100D50
C6212, C6274, C6275, C6408	CCSQCH101J50
C6221, C6222, C6416	CCSQCH150J50
C6271	CCSQCH200J50
C6415	CCSQCH330J50
C6401, C6419	CCSQCH5R0C50
C6407	CCSQCK1R0C50
C6410	CCSQCK2R0C50
C6413	CCSQPH220J50
C6414	CCSQPH8R0D50
C6405	CCSQTH180J50
C6234, C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAS100M50
C6243	CEAS101M16
C6231	CEAS1R0M50
C6227	CEAS220M16
C6236	CEAS2R2M50
C6216	CEAS330M16
C6262	CEAS3R3M50
C6219	CEAS470M10
C6244	CEAS470M16
C6249, C6250, C6265, C6266	CEAS4R7M50
C6258	CEJA470M16
C6215	CFTLA103J50
C6214	CFTLA224J50
C6211, C6254, C6403, C6406, C6412	CKSQYB102K50
C6201, C6205, C6210, C6213, C6237	CKSQYB103K50
C6276, C6278, C6280, C6281, C6402	CKSQYB103K50
C6409, C6417, C6418	CKSQYB103K50
C6251, C6252	CKSQYB153K50
C6203, C6259	CKSQYB223K50
C6228	CKSQYB472K50
C6209	CKSQYB473K50
C6230	CKSQYB821K50
C6218, C6223, C6255	CKSQYF103Z50
C6220, C6226, C6242, C6256	CKSQYF223Z50
C6225	CKSQYF473Z50

RESISTORS

R6280	RD1/4PU101J
R6413, R6416, R6418, R6906, R6909	RS1/8S0R0J
R6401	RS1/8S470J
VR6201 (10kΩ)	RCP1045
Other Resistors	RS1/10S□□□J

OTHERS

BN6202	TERMINAL 4P	AKE7025
X6202	CERAMIC RESONATOR (456kHz)	ASS1066
X6201	CRYSTAL RESONATOR (7.2000MHz)	ASS1093
CN6201	14P SOCKET	KP200IA14L
	AM RF TUNING BLOCK	AXX7041

G SENSOR BOARD ASSY

SEMICONDUCTORS

Q601-Q604	PS3322

RESISTORS

All Resistors	RD1/4PU□□□J

OTHERS

CN601	7P JUMPER WIRE	52151-0710

H LED BOARD ASSY

SEMICONDUCTORS

D601-D604	AN329

RESISTORS

All Resistors	RD1/4PU□□□J

OTHERS

J601	3P JUMPER WIRE	D20PWW0315E

I MOTOR BOARD ASSY

OTHERS

J602	3P JUMPER WIRE	D20PWW0305E

Mark	No.	Description	Part No.

C SENSOR PCB ASSY

SEMICONDUCTORS

	D652	GP1S24

OTHERS

	J652	3P JUMPER WIRE	D20PWW0315E

D MOTOR PCB ASSY

OTHERS

		LOADING MOTOR	VXM1034

E SW PCB ASSY

SWITCHES AND RELAYS

	S651, S652	VSG1006

OTHERS

	J656	3P JUMPER WIRE	D20PWW0315E

F MECHA PCB ASSY

SEMICONDUCTORS

	Q651	DTC124ES

RESISTORS

	R651, R652 (56kΩ)	ACN7012
	R653 (220Ω)	DCN1062
	R654 (0Ω)	DCN1065

OTHERS

	CN652	12P CONNECTOR	12FMZ-AST
	CN651	4P CONNECTOR	173979-4
	CN653	22P CONNECTOR	SLEM22R-2

B MECHANISM BOARD ASSY

SWITCHES AND RELAYS

	S610	DSG1016

OTHERS

	CN610	4P CONNECTOR	173979-4

6. ADJUSTMENT

6.1 TUNER SECTION

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	98	0–30	98MHz	L6402 T6401	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.
2	TUNED IND. Lighting Level	98	18±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6401 and L6402. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*

■ AM Tuner Section

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	AM Front and Sensitivity Adjustment	999*1	35–45	999kHz*1	T6201	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.

*1: For the area using 10kHz step, frequencies should be 1000 kHz

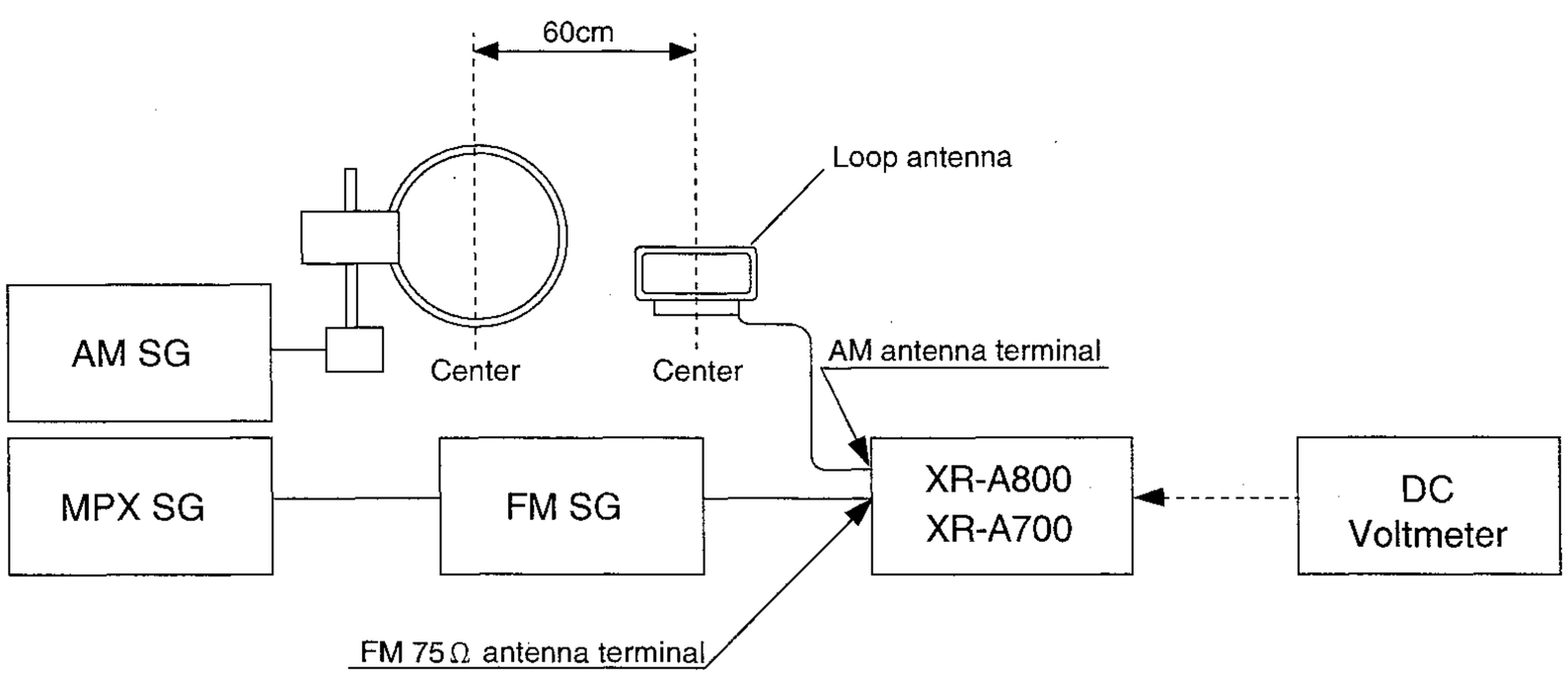


Fig. 1–1 AM and FM Adjustment Wiring Diagram

www.manualscenter.com

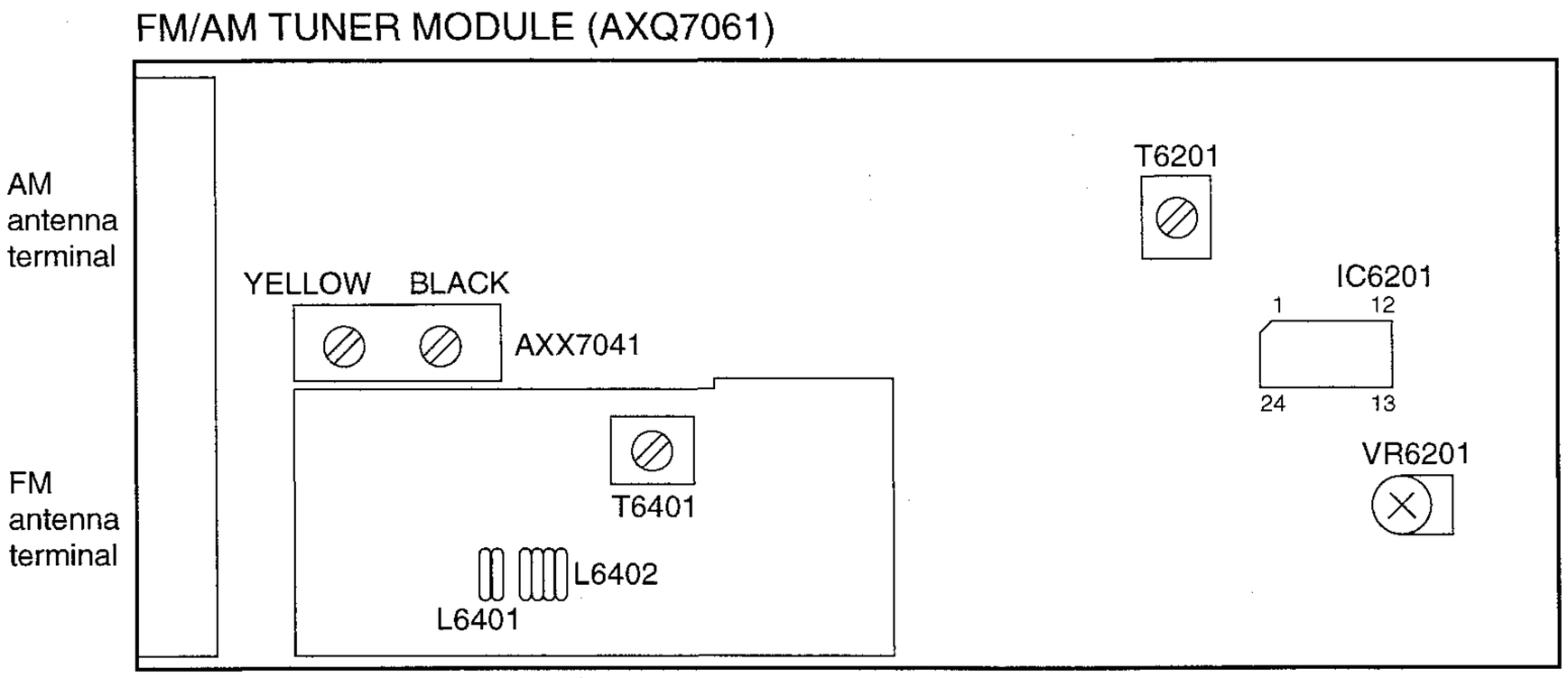


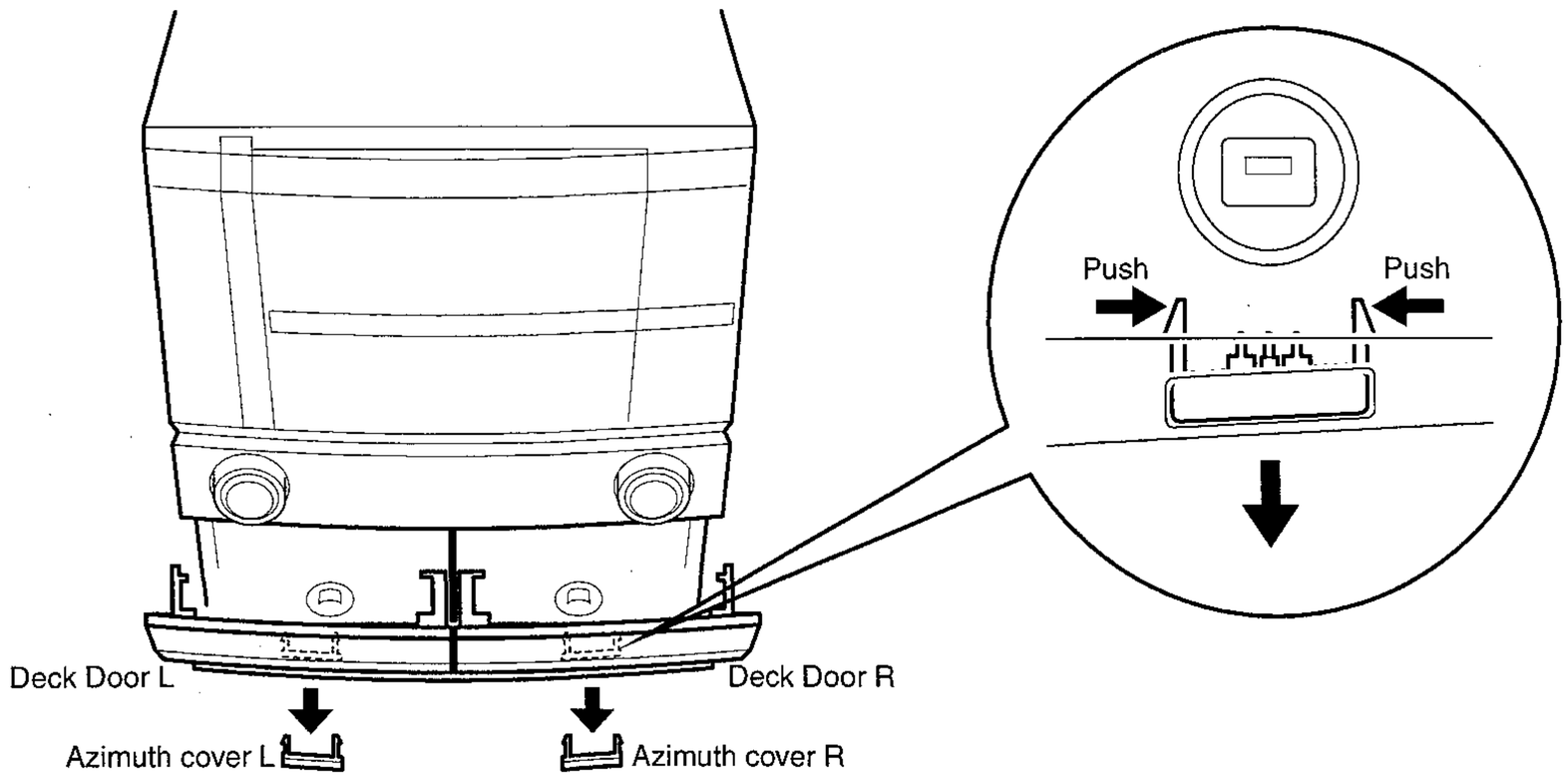
Fig. 1–2 Adjustment Points

6.2 CASSETTE DECK SECTION

● Adjustment points and test points are shown in Fig. 2-3 and Fig. 2-4.

■ Before Adjustment

1. For execution of head angle adjustment, first remove the Azimuth cover (L) and (R).
2. Open the cassette doors (L) and (R).
3. Insert your fingers into the cassette door, push down the two hooks at the upper side of the Azimuth cover, and push them slightly out to the front. Excessive pushing at this time may make it impossible to close the cassette door.
4. Confirm that the Azimuth cover (L) and (R) have been pushed out a little to the front, and then close the cassette doors (L) and (R) and remove the Azimuth cover.



■ Mechanical Adjustment

● Test tape: NCT-111 (3kHz, 30min).

1. Tape Speed Adjustment

Remove the VOLUME KNOB to adjust tape spend.

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Procedure	Remarks
1	Deck I PLAY	NCT-111 (Playback: 3kHz)	DISPLAY Assy VR5401	TAPE TEST POINT (Rch) (AF Assy)	Press the PLAY SW and adjust so that the reading becomes 3000Hz ±20Hz. Confirm that wow & flutter level is below 0.2% (in the reverse direction, confirm that the reading is within 3000Hz ±60Hz).	

■ Electrical Adjustment

Check the following before starting.

1. Confirm that the tape speed adjustment has been completed.
2. Clean the heads and demagnetize them using a head eraser.
3. Set the measurement level to 0 dBV = 1 Vrms.
4. Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
   STD-331E: For playback adjustment
   STD-632: Normal blank tape
5. Provide yourself with the following measuring devides:
   - AC millivoltmeter
   - Low-frequency oscillator
   - Attenuator
   - Oscilloscope
6. Adjust both right and left channels unless otherwise specified.
7. Turn the DOLBY NR switch off unless otherwize specified.
8. Warm up the unit for several minutes before adjustment. In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
9. Always follow the indicated adjustment order.
   Otherwise, a complete adjustment may not be achieved.

Playback Adjustment (Decks I and II)

1. Head Azimuth Adjustment
2. Playback Level Adjustment

Recording Adjustment (Deck II)

1. Bias Oscillation Frequency Adjustment
2. Recording Bias Adjustment
3. Recording Level Adjustment.
4. ALC Operation Check

* *As the reference recording level is 250nwb/m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160nwb/m). When adjusting, pay carefull attention to the type of tape used.*

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

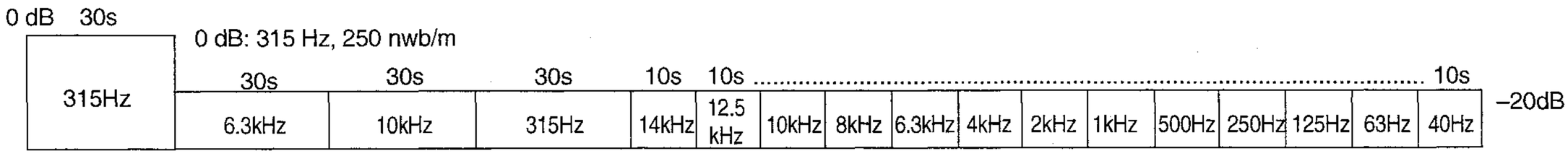


Fig. 2–1 STD-331E Test Tape

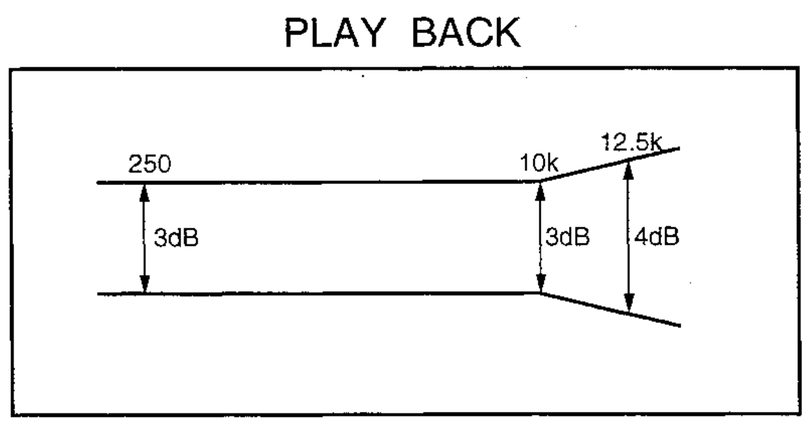


Fig. 2–2 Frequency Characteristics

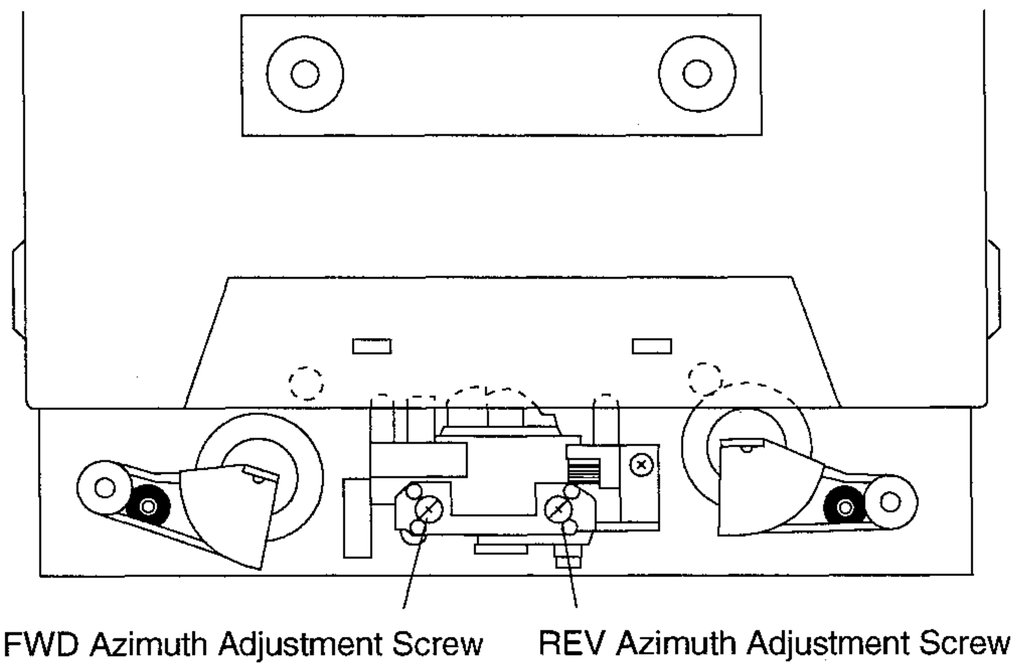


Fig. 2–3 Head Azimuth Adjustment

www.manualscenter.com

■ Playback Adjustment

- This unit is equipped with auto tape selector.
- Do not switch between forward and reverse operation with the screwdriver inserted.

1. Head Azimuth Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	PLAY	STD-331E test tape (Playback: 10kHz, –20dB)	Deck I	Head azimuth adjustment screw (Fig. 2-3)	TAPE TEST POINT (L, Rch) (AF Assy)	Max. playback signal level	After adjustment, apply silicon bond to the head azimuth adjustment screw.
				Deck II				

2. Playback Level Adjustment

- Since this adjustment determines playback Dolby NR level, perform it carefully.

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	PLAY	STD-331E test tape (Playback: 315Hz, 0dB)	Deck I	VR4203 (Lch) VR4204 (Rch)	TAPE TEST POINT (L, Rch) (AF Assy)	– 4.2 dBV	
				Deck II	VR4201 (Lch) VR4202 (Rch)			

Note: Please execute playback level adjustment always in the order of deck I → deck II
When deck I has been adjusted, always adjust deck II also.

■ Recording Adjustment

1. Bias Oscillation Frequency Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/ Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	REC	Load the STD–632 test tape and set the recording mode.	Deck I	————	————	Oscillation frequency to be 105.0kHz ±2kHz.	When the power is turned ON while the MEMORY button is depressed, the frequency will decrease 2 – 3 kHz.
				Deck II	L4351	Between Ⓐ point in Fig. 2-4 and GND.		

2. Recording Bias Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	REC	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	– 24.2 dBV	
				Deck II	Input signal level			
2	AUTO (NORMAL)	REC→ PLAY	Load the STD-632 test tape and record/playback the 315Hz and 10kHz signals. (see the Note below)	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat adjustment until playback level of the 10kHz signal is within 0±0.5dB from that of the 315Hz signal.	
				Deck II	VR4351 (Lch) VR4352 (Rch)			

Note: Set the 10kHz input signal level to the same value as the 315Hz input signal level of step 1.

www.manualscenter.com

3. Recording Level Adjustment

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points		Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	REC	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Deck I	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
				Deck II				
2	AUTO (NORMAL)	REC → PLAY	STD-632 test tape and record/ playback the 315Hz signal.	Deck I	——	TAPE TEST POINT (L, Rch) (AF Assy)	Repeat recording, playback and adjustment until playback level of the 315Hz signal becomes –8.2dBV.	
				Deck II	VR4301 (Lch) VR4302 (Rch)			

4. ALC Operation Check

Step	Tape Selector (AUTO)	Mode	Input Signal/Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	AUTO (NORMAL)	REC	Input a 315Hz signal to the AUX terminal and set the input selector to AUX.	Input signal level	TAPE TEST POINT (L, Rch) (AF Assy)	– 8.2 dBV	
2				Set to a level +6 dB above the input level at step 1.		Confirm that the reading is –3.2±2.5dBV.	

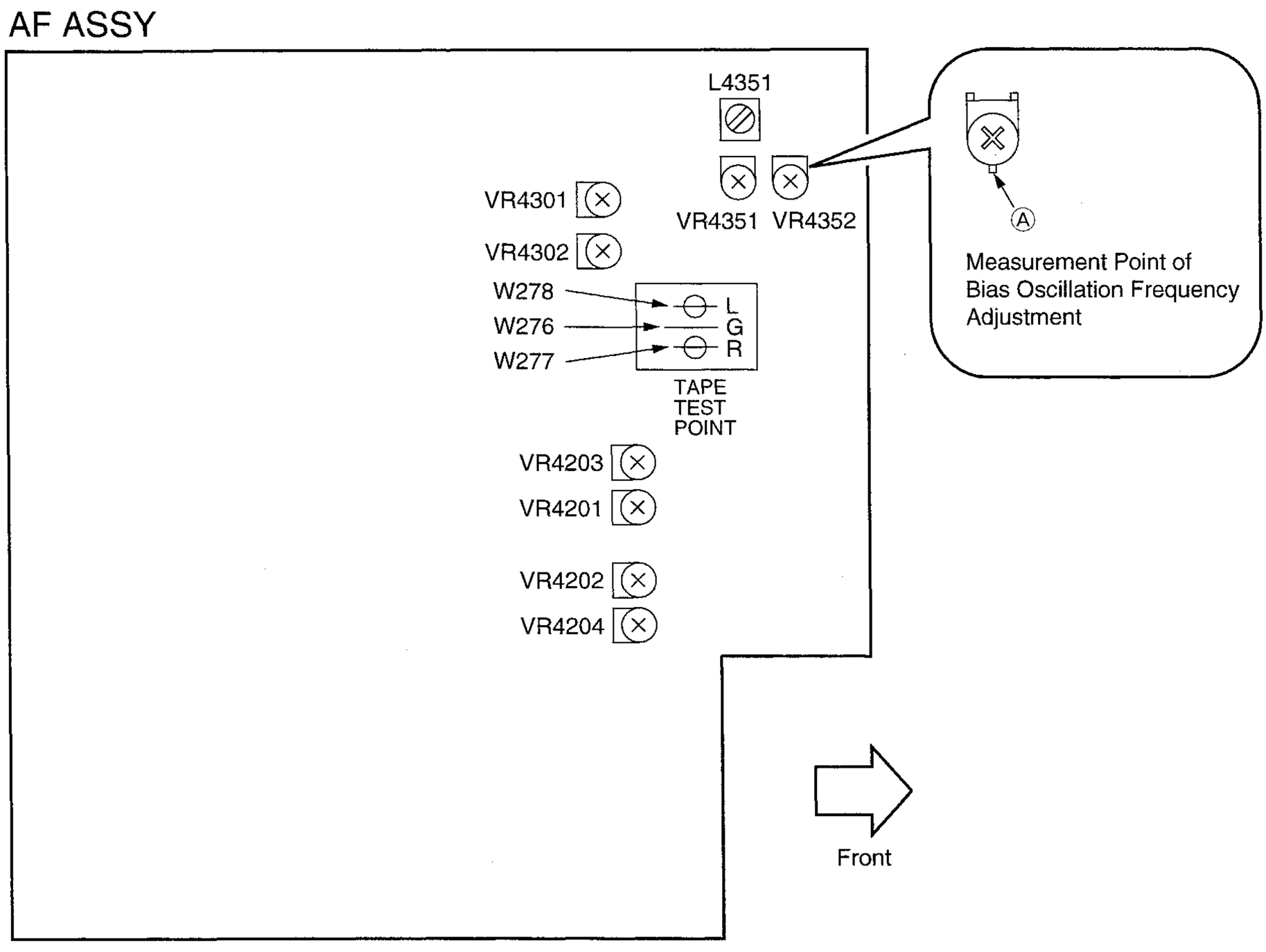
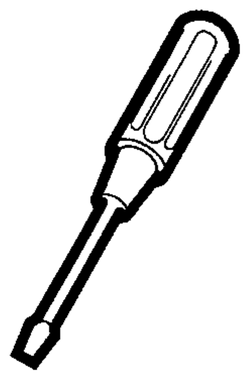
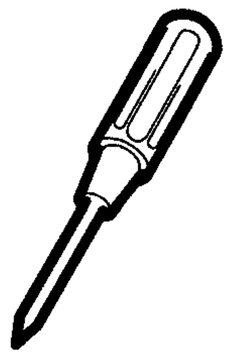
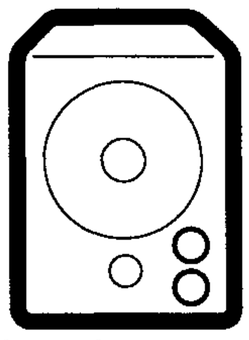
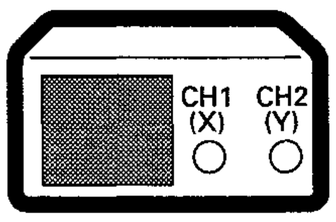
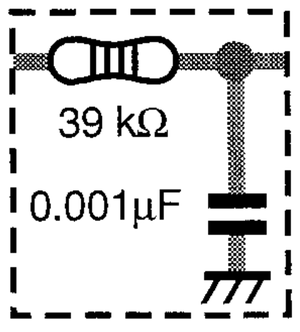


Fig. 2–4 Adjustment and Measurement points

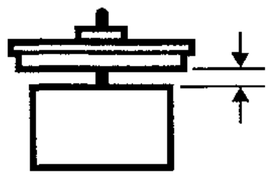
6.3 CD SECTION (CD 部の調整)

1. PREPARATIONS (準備)

1.1 Jigs and Measuring Instruments (使用測定器 / 治工具類)

CD TEST DISC (YEDS-7)	⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)
⊕ screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39 kΩ + 0.001μF)

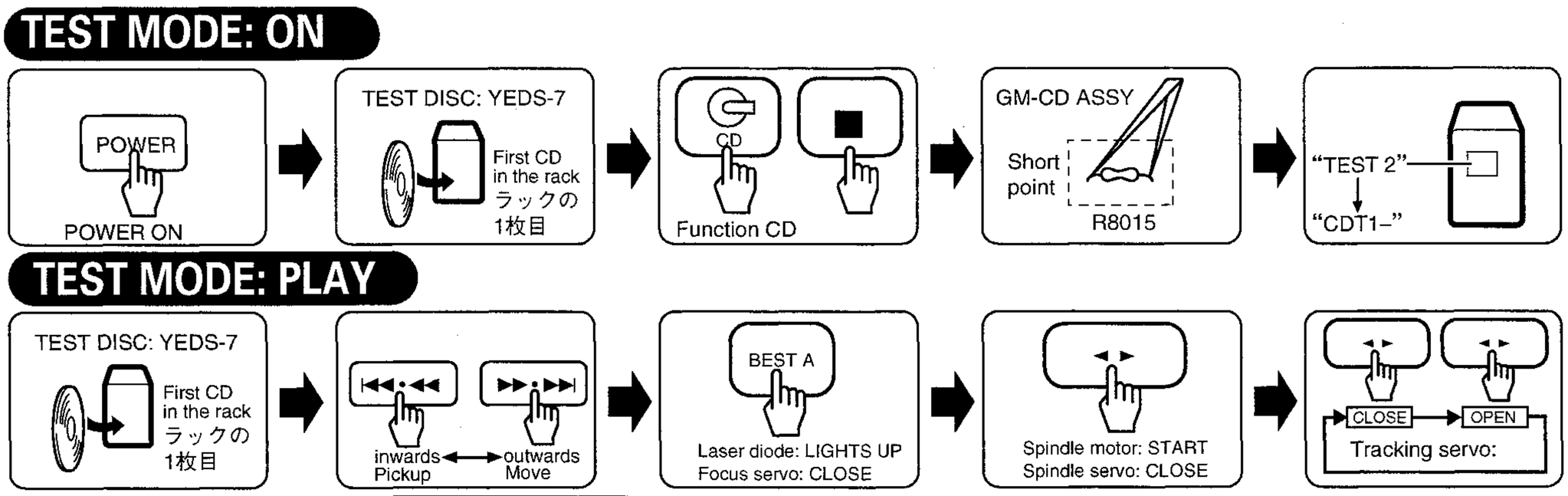
1.2 Necessary Adjustment Points (調整に必要な項目)

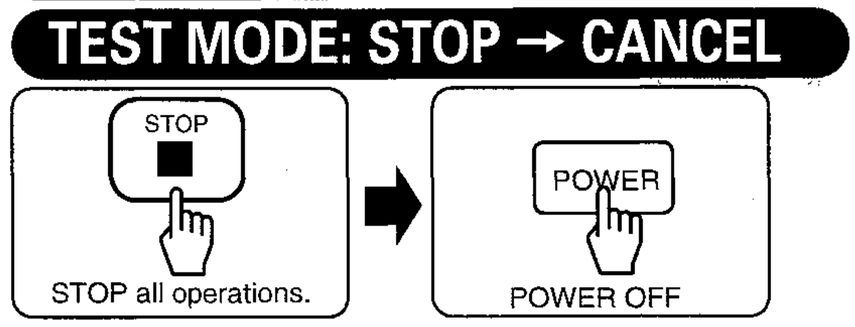
When (このような時)	Adjustment points
Exchange PICKUP (ピックアップを交換した時)	1.2.3.4.5.6. → Page 72—74
Exchange CD ASSY (CD ASSYを交換した時)	1.2.3.4.5.6. → Page 72—74
Exchange SERVO MECH ASSY (サーボメカ ASSYを交換した時)	1.2.3.4.5.6. → Page 72—74
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	 ADJ → Page 13

www.manualscenter.com

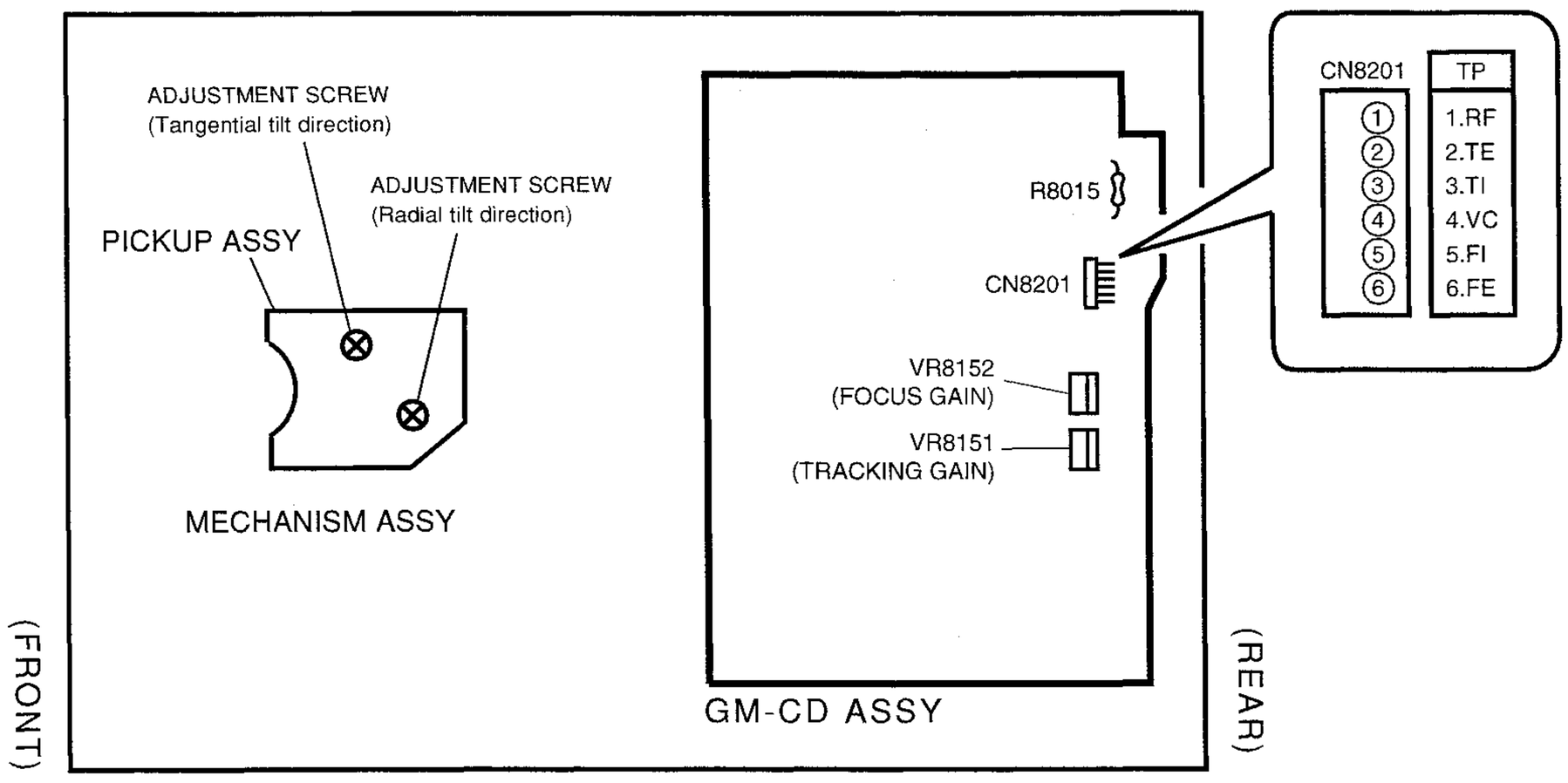
2. ADJUSTMENT (調整)

2.1 How to Start/Cancel Test Mode （テストモードの設定 / 解除）



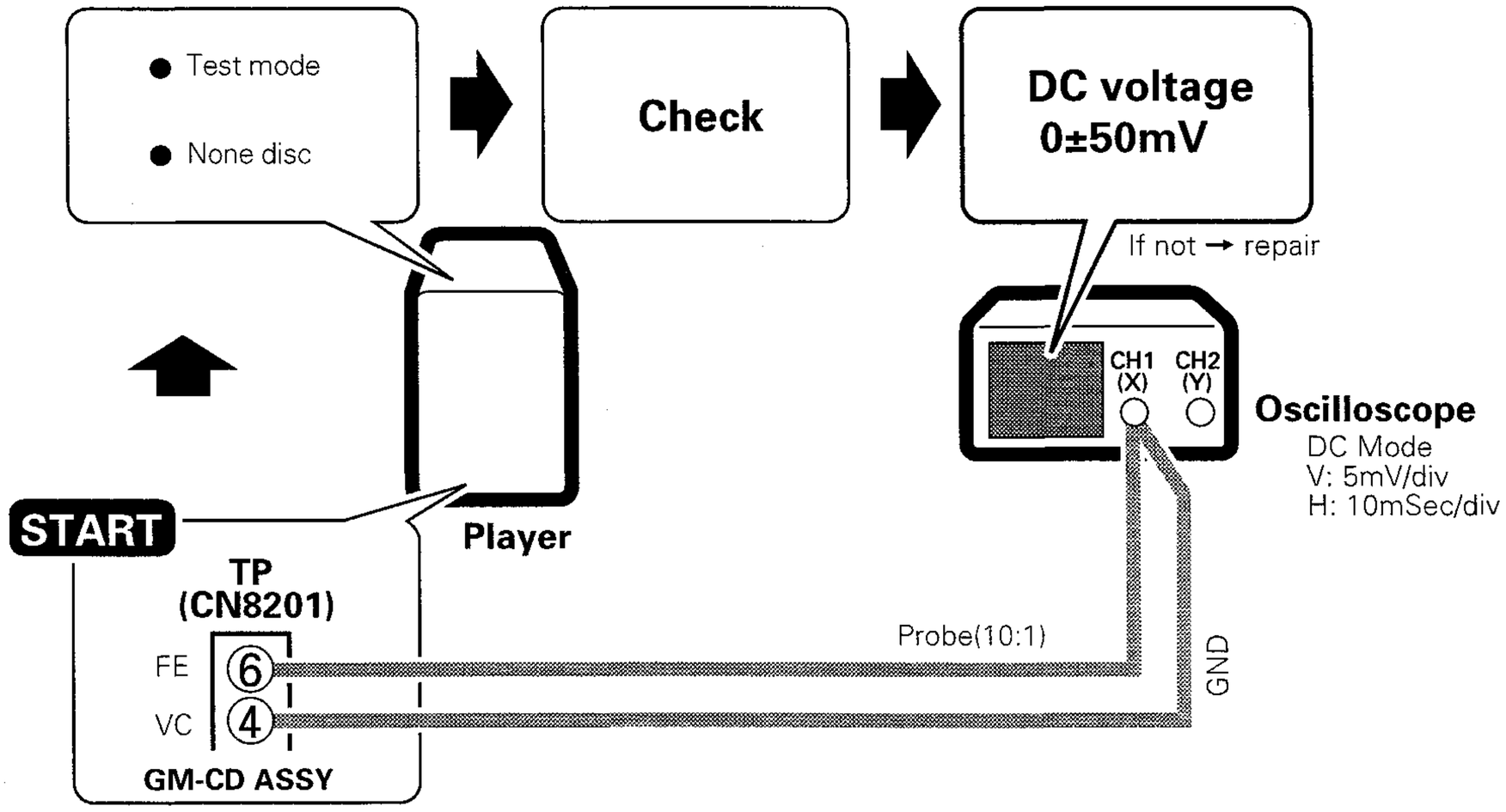


2.2Adjustment Locations（テストポイントと調整用 VR の位置）

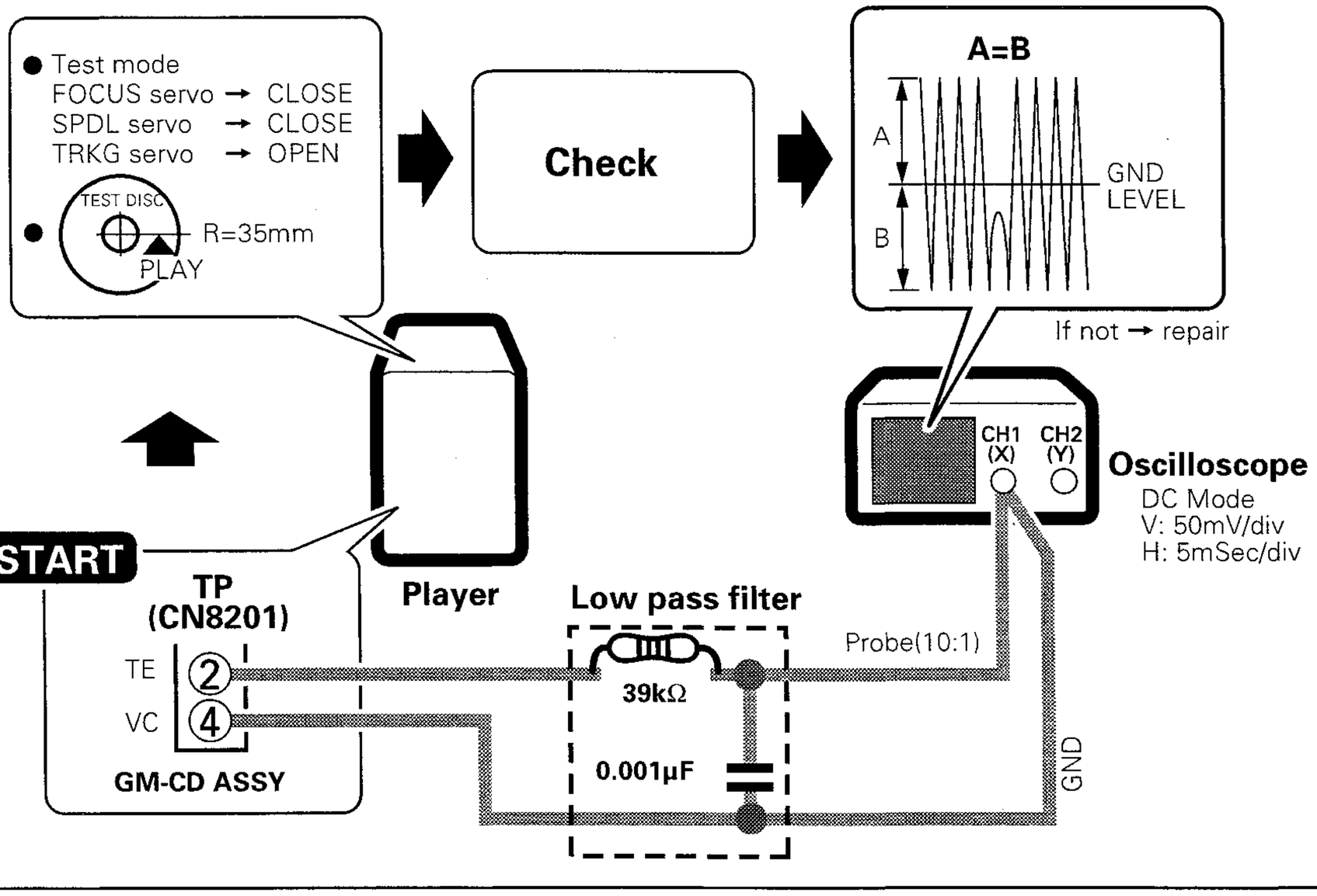


2.3 Check and Adjustment (確認、調整)

1. Focus Offset Check
(フォーカスオフセット確認)



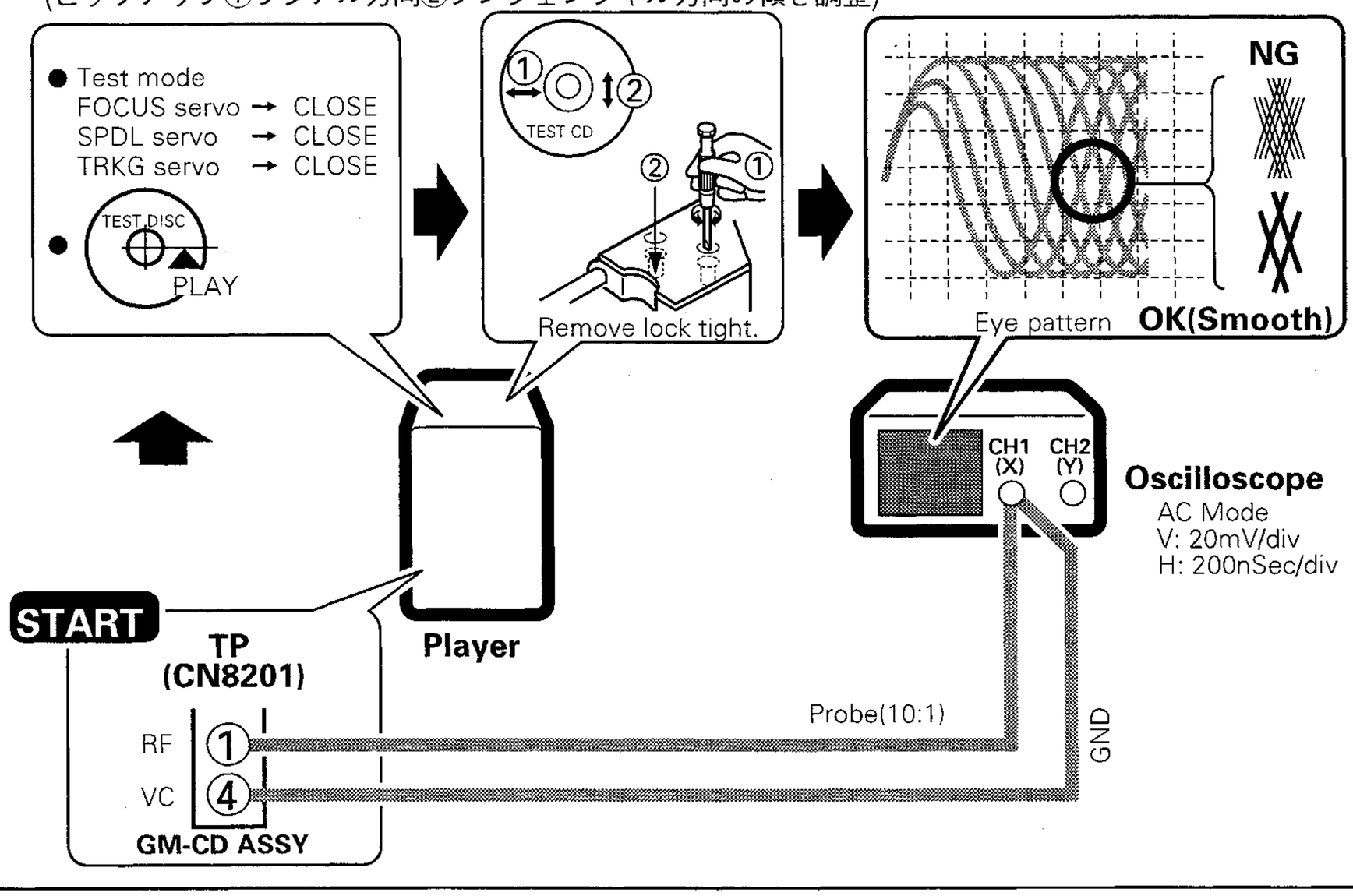
2. Tracking Error Balance Check
(トラッキングエラーバランス確認)



www.manualscenter.com

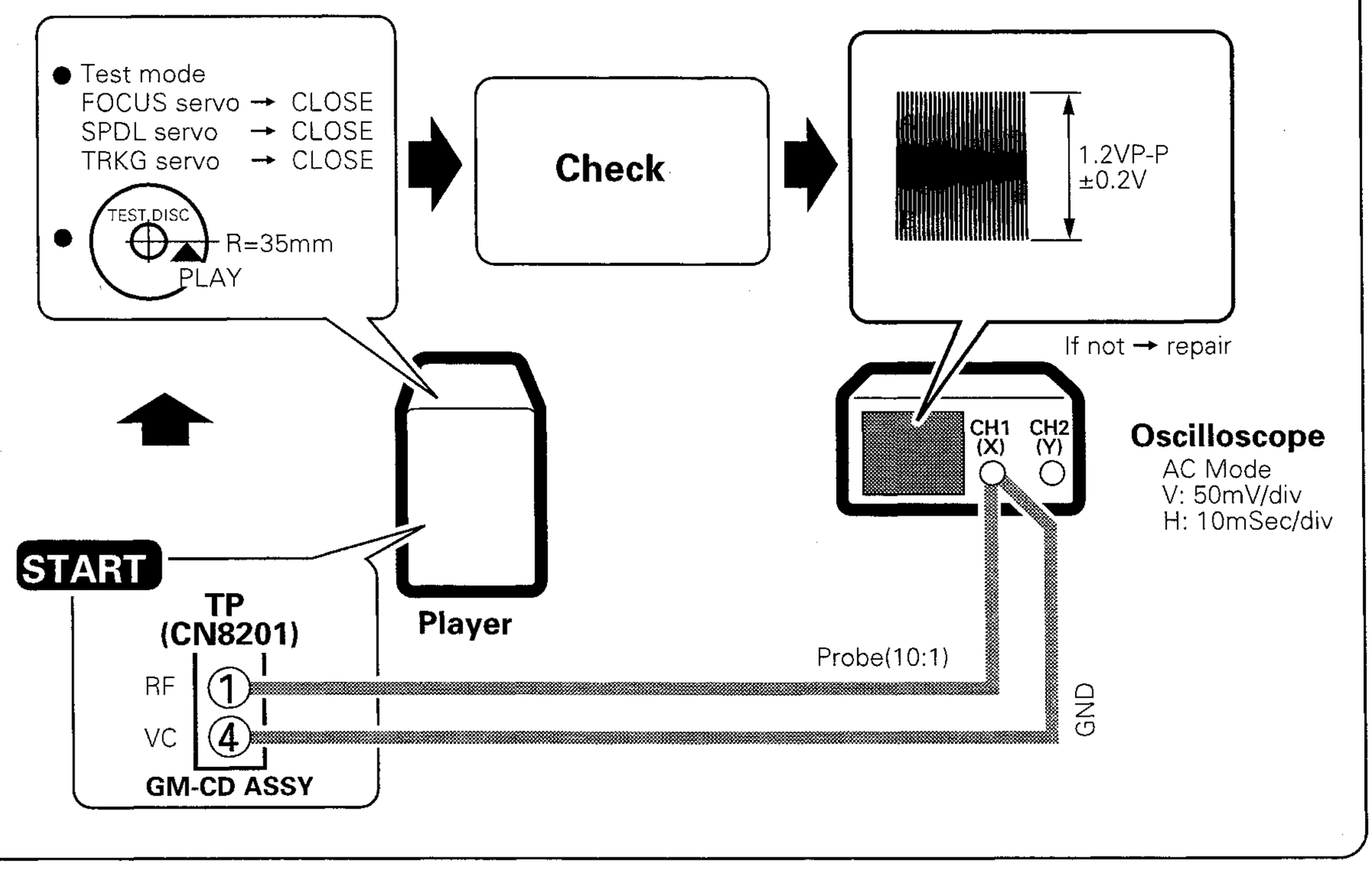
3. PICKUP ①RADIAL / ②TANGENTIAL DIRECTION TILT ADJUSTMENT

(ピックアップ①ラジアル方向②タンジェンシャル方向の傾き調整)



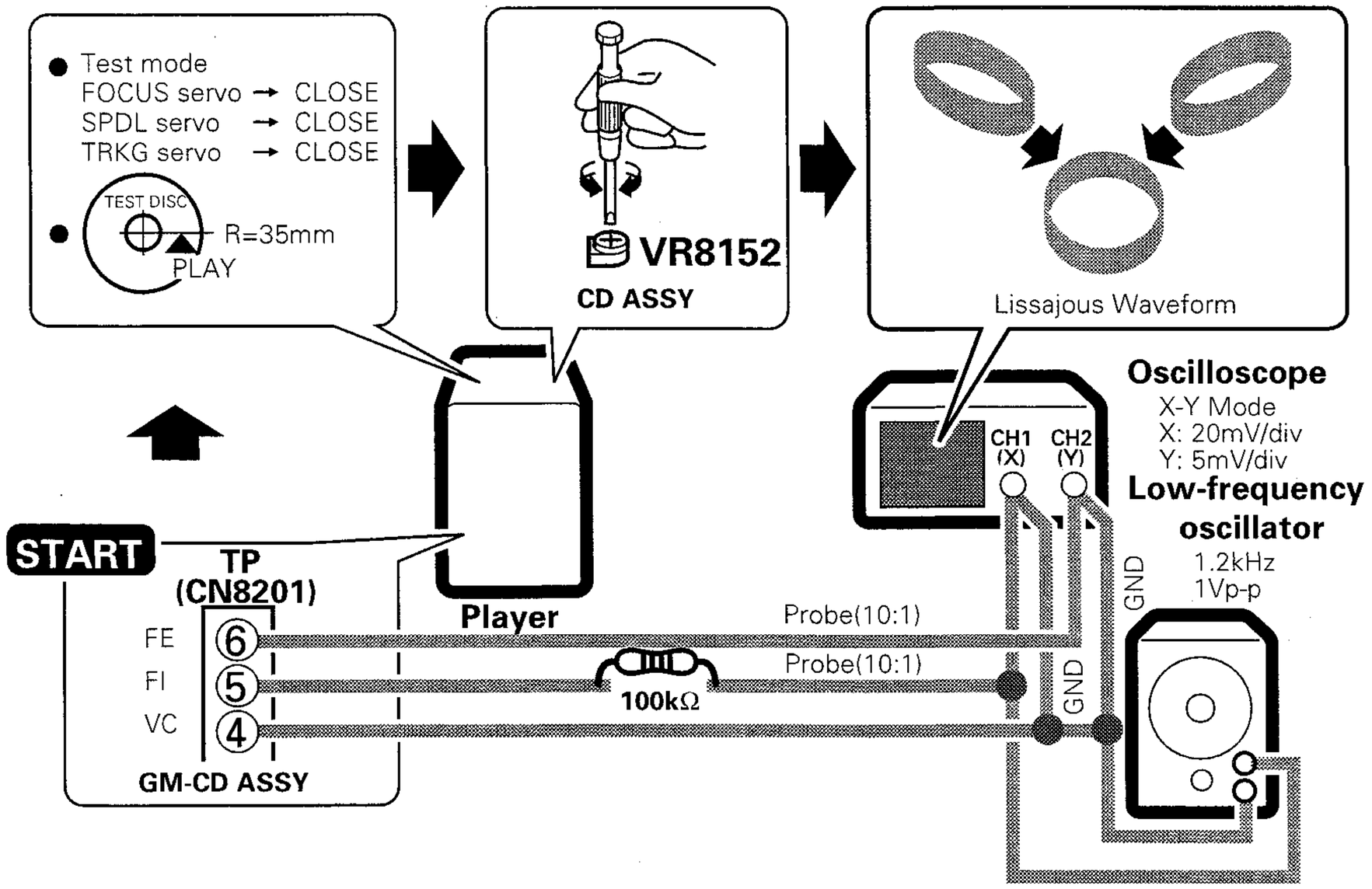
4. RF LEVEL CHECK

(RFレベル確認)



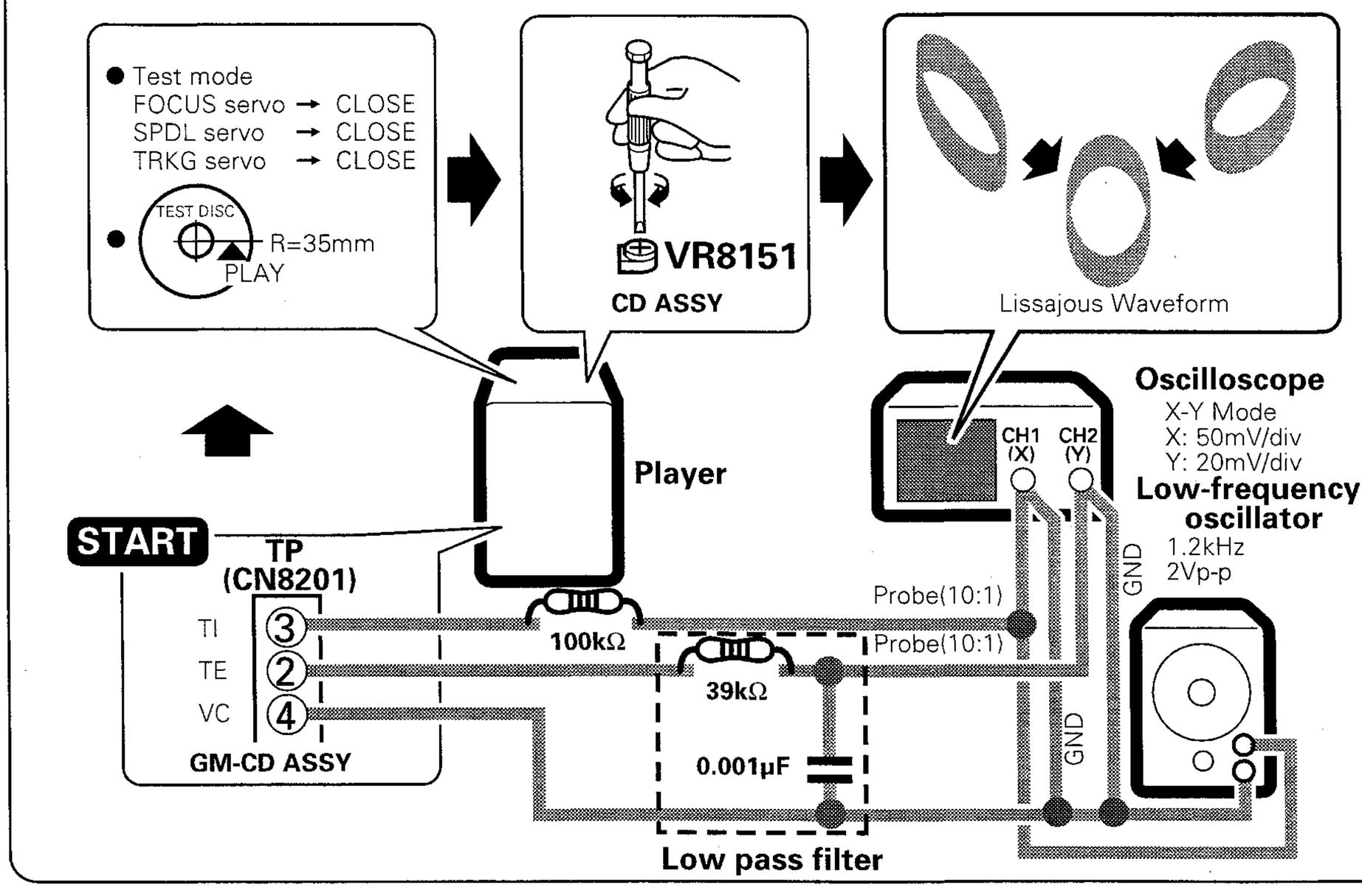
5. Focus Servo Loop Gain Adjustment

(フォーカスサーボループゲイン調整)



6. Tracking Servo Loop Gain Adjustment

(トラッキングサーボループゲイン調整)



www.manualscenter.com

www.manualscenter.com

7. GENERAL INFORMATION

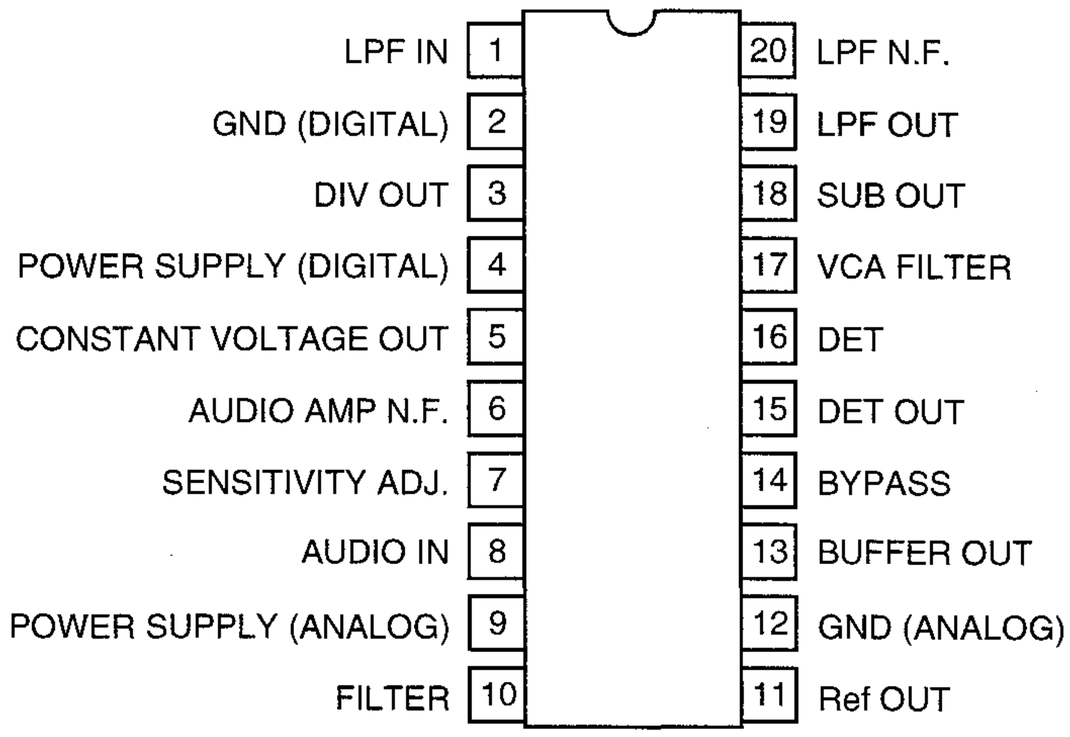
7.1 PARTS

7.1.1 IC

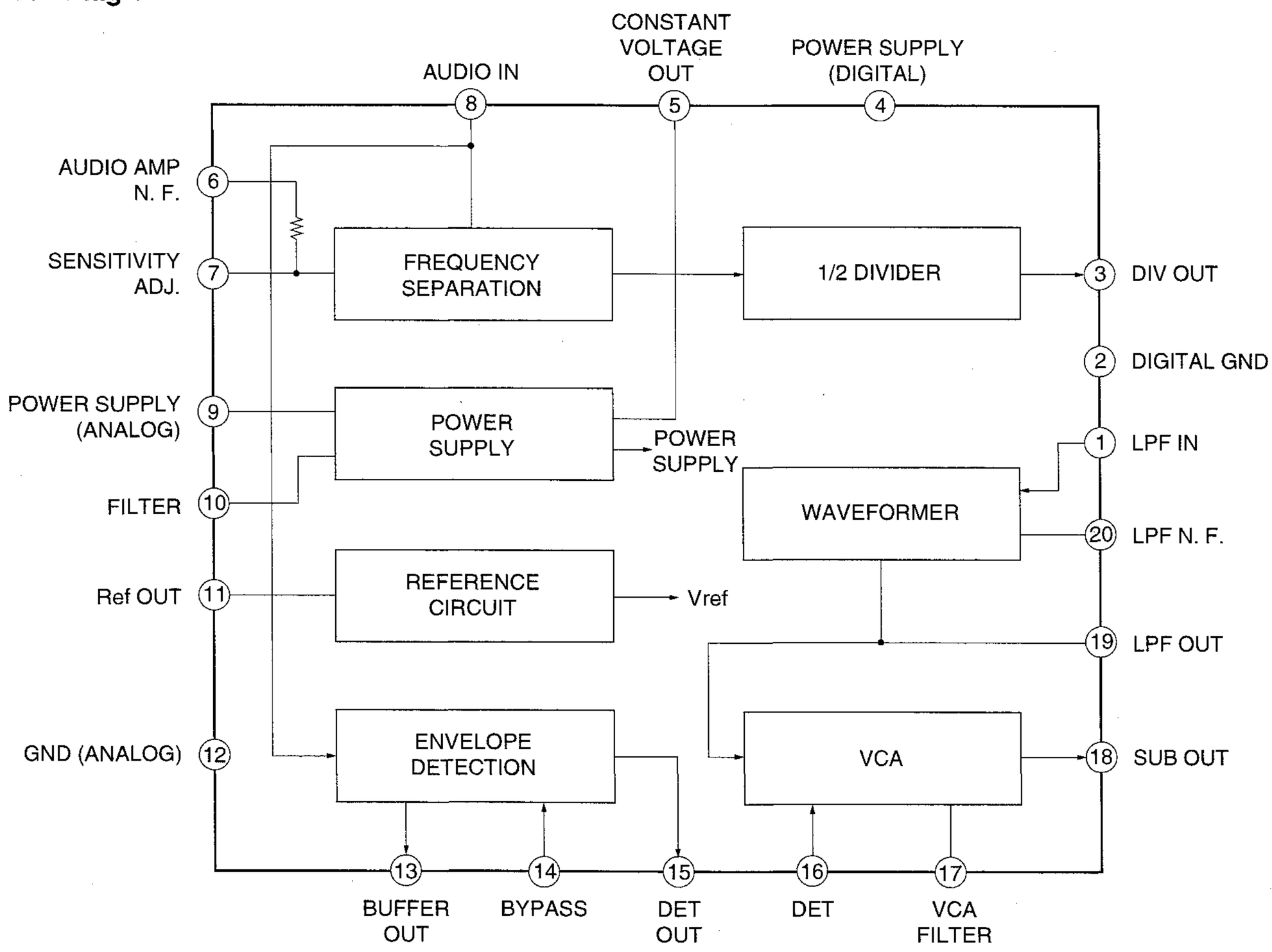
■ M51134FP (AF ASSY: IC1009) SUB HARMONIZER (BASS SYNTHESIZER)

● The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

● Pin Assignment



● Block Diagram



■ PDG205A (DISPLAY ASSY: IC5001)
DISPLAY μ-COM

● Pin Function

No.	Function Name	Pin Name	I/O	Function
1	GA/A1	G2	O	FDP control grid　FL PIN NO. G16
2	G0/A0	G1	O	G9
3	NC	–	–	Not used.
4	PE0/EC0/INT0	JOG2A	I	Pulse input for jog (for volume control)
5	PE1/EC1/INT1	JOG2B	I	
6	PE2/INT2	PULSE1	I	Pulse input for deck 1 reel
7	PE3/INT3/NMI	ACIN	I	AC pulse input (for clock, power supply monitor)
8	PE4/RMC	RMC	I	Remote control signal input
9	PE5	PULSE2	O	Pulse input for deck 2 reel
10	PE6/PMW	M62429CLK	O	Clock output of the base synthesizer volume control IC M62429
11	PE7/TO/ADJ	25HCLK	O	LC7570 clock output
12	PC0/KR0	KI1	I	Key scan return input
13	PC1/KR1	KI2	I	
14	PC2/KR2	KI3	I	
15	PC3/KR3	KI4	I	
16	PC4/KR4	KI5	I	
17	PC5/KR5	HPIN	I	Headphone detection H:IN
18	PC6/KR6	JOG4A	I	Pulse input for jog (multi amplifier, woofer level) / XR-A700 I/O:Output "L" fixed.
19	PC7/KR7	JOG4B	I	
20	PB0/CINT	JOG3A	I	Pulse input for jog (multi amplifier, P.BASS) / XR-A700 I/O:Output "L" fixed.
21	PB1/CS0	JOG3B	I	
22	PB2/SCK0	DISPCLK	I	Serial clock input for CD tuner microprocessor display
23	PB3/SI0	DISPDATA	I	Serial data input for CD tuner microprocessor display
24	PB4/SO0	SBCLK	I/O	System bus serial clock input/output
25	PB5/SCK1	SBDATA	O	System bus serial data output
26	PB6/SI1	EXCLK	O	(LC75394NED, BU4094BCF) clock output
27	PB7/SO1	EXDATA	O	(LC75394NED, BU4094BCF, M62429) data output
28	AV_{REF}	AVREF	I	A/D converter reference voltage input
29	PA0/AN0	SPAIN	I	Spectrum analyzer signal input
30	PA1/AN1	KEYIN	I	Key scan input for multi amplifier (AD) / XR-A700 I/O:Output "L" fixed.
31	PA2/AN2	MS	I	Deck MS signal input
32	PA3/AN3	TEMP	I	Temperature detection
33	PA4/AN4	25HDATA	O	LC7570 data output
34	PA5/AN5	CDR/E	I/O	System bus CD communication request/enable. H:Request waiting L:Enable.
35	PA6/AN6	JOG1A	I	Pulse input for jog (AD) (multi/MORPHING)
36	PA7/AN7	NC	–	Not used.
37	AV_{SS}	AVSS	–	A/D converter GND
38	RST	RESET	I	CPU reset input. L: Reset H: –.
39	EXTAL	XTAL	I	Connected to 8 MHz Ceramic resonator.
40	XTAL	XTAL	O	
41	V_{SS}	D.GND	–	GND
42	TX	NC	O	Not used.
43	TEX	TEX	I	Not used.
44	V_{DD}	Vdd	–	Positive power supply
45	V_{FDP}	VFDP	–	Negative power supply for FL display
46	PD0/A55	EVOL CE	O	Main volume control IC LC75394NED strobe output
47	PD1/A54	PCONT	O	Power control
48	PD2/A53	SOL2	O	Deck 2 solenoid control
49	PD3/A52	SOL1	O	Deck 1 solenoid control
50	PD4/A51	FLWR	O	LC7570 strobe output

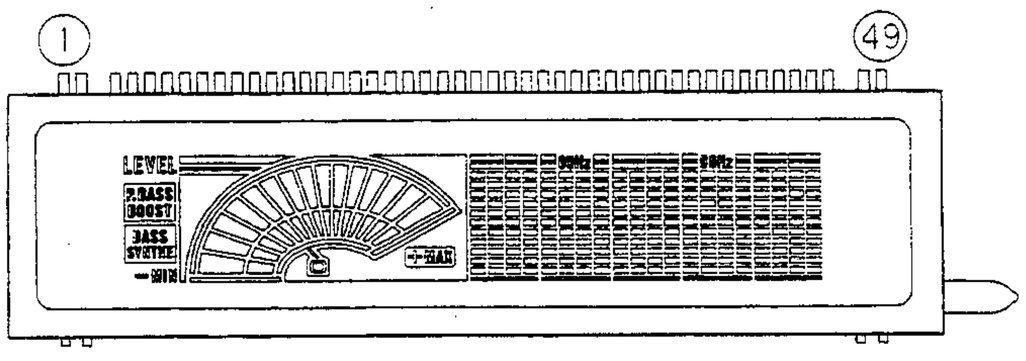
No.	Function Name	Pin Name	I/O	Function		
51	PD5/A50	LED2 STB	O	LED control IC BU4094BCF strobe output (2)		
52	PD6/A49	LED1 STB	O	LED control IC BU4094BCF strobe output (1)		
53	PD7/A48	DECKSTB2	O	Deck signal control IC BU4094BCF strobe output (2)		
54	PF0/A47	25HSTB	O	XR-A800: Control IC (BU4094BCF) strobe output/XR-A700:AF MUTE control L:ON		
55	PF1/A46	MOTOR	O	Deck motor control. H:ON.		
56	PF2/A45	SPAC	O	BA3835F output select control		
57	PF3/A44	SPAB	O			
58	PF4/A43	SPAA	O	XR-A800:BA3834F		
59	PF5/A42	PBMUTE	O	Deck playback mute control. H:Mute.		
60	PF6/A41	NC	O	Not used.		
61	PF7/A40	SPRY	O	Speaker relay control. H:Relay ON.		
62	PG0/A39	S24	O	FL display control anode	FL PIN NO.	S17
63	PG1/A38	S23	O			S5
64	PG2/A37	S22	O			S6
65	PG3/A36	S21	O			S18
66	PG4/A35	S20	O			S19
67	PG5/A34	S19	O			S20
68	PG6/A33	S18	O			S21
69	PG7/A32	S17	O			S15
70	PH0/A31	S16	O			S4
71	PH1/A30	S15	O			S14
72	PH2/A29	S14	O			S16
73	PH3/A28	S13	O			S9
74	PH4/A27	S12/K04	O	FL display control anode/Key scan output	FL PIN NO.	S10
75	PH5/A26	S11/K03	O			S22
76	PH6/A25	S10/K02	O			S23
77	PH7/A24	S9/K01	O			S24
78	A23	S8/K08	O			S2
79	A22	S7/L07	O			S1
80	A21	S6/K06	O			S12
81	A20	S5/K05	O			S3
82	A19	S4	O	FL display control anode	FL PIN NO.	S13
83	A18	S3	O			S11
84	A17	S2	O			S8
85	A16	S1	O			S7
86	G15/A15	G16	O	FL display control grid	FL PIN NO.	G8
87	G14/A14	G15	O			G7
88	G13/A13	G14	O			G6
89	V_{DD}	Vdd	–	Positive power voltage supply		
90	G12/A12	G13	O	FL display control grid	FL PIN NO.	G5
91	G11/A11	G12	O			G4
92	G10/A10	G11	O			G3
93	G9/A9	G10	O			G2
94	G8/A8	G9	O			G1
95	G7/A7	G8	O			G10
96	G6/A6	G7	O			G11
97	G5/A5	G6	O			G12
98	G4/A4	G5	O			G13
99	G3/A3	G4	O			G14
100	G2/A2	G3	O			G15

www.manualscenter.com

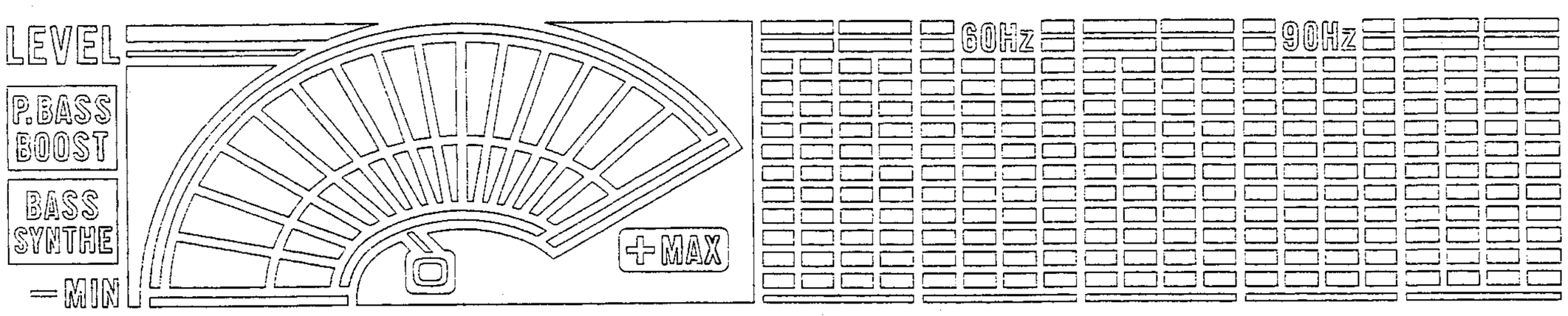
7.1.2 DISPLAY

■ AAV7043 (SUB DISPLAY ASSY: V7001)

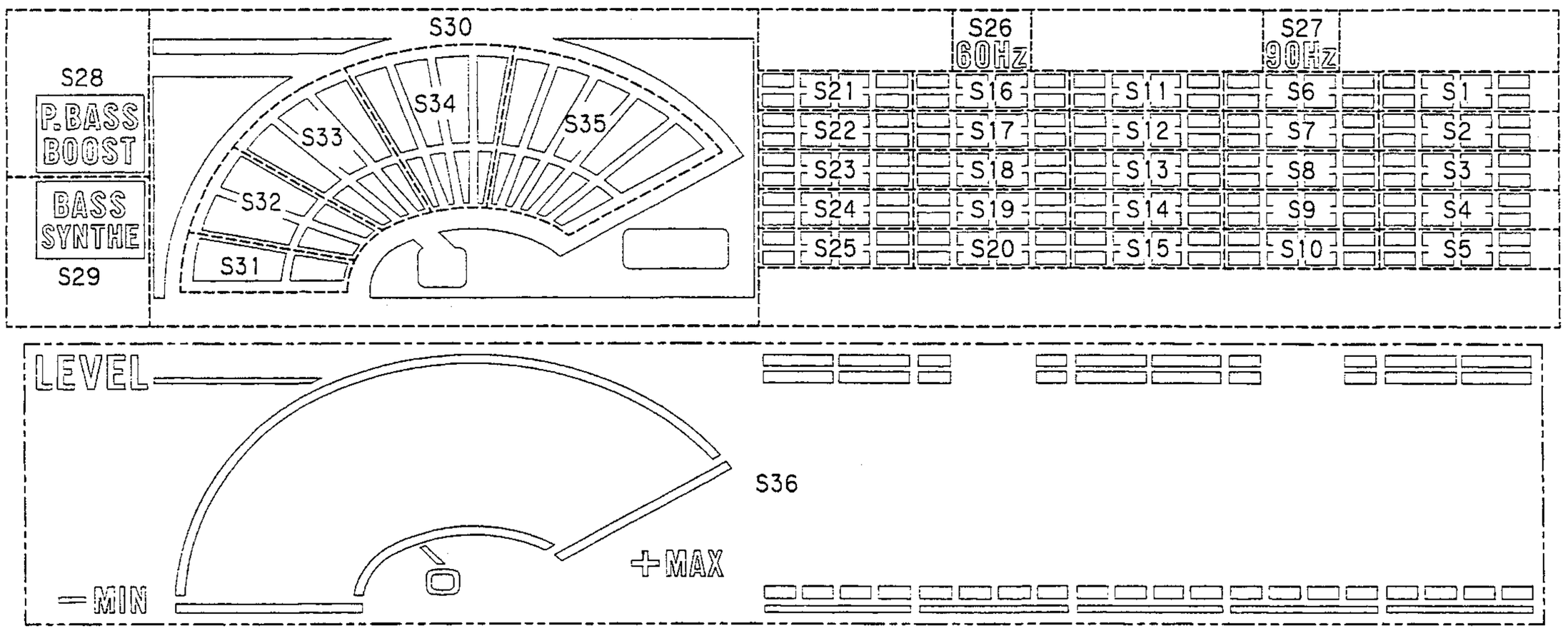
● External Dimensions



● Display Pattern



● Anode and Grid Assignment



● Pin Assignment

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Assignment	F1	F1	NP	NL	G	S36	S35	S34	S33	S32	S31	S30	S29	S28	S27	S26	NL	NL	NL	NL	S25	S24	S23	S22	S21

Pin No.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Assignment	S20	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	S1	NL	NP	F2	F2

F1,F2:Filament G:Grid S1-S36:Anode NP:No Pin NL:No Lead

www.manualscenter.com

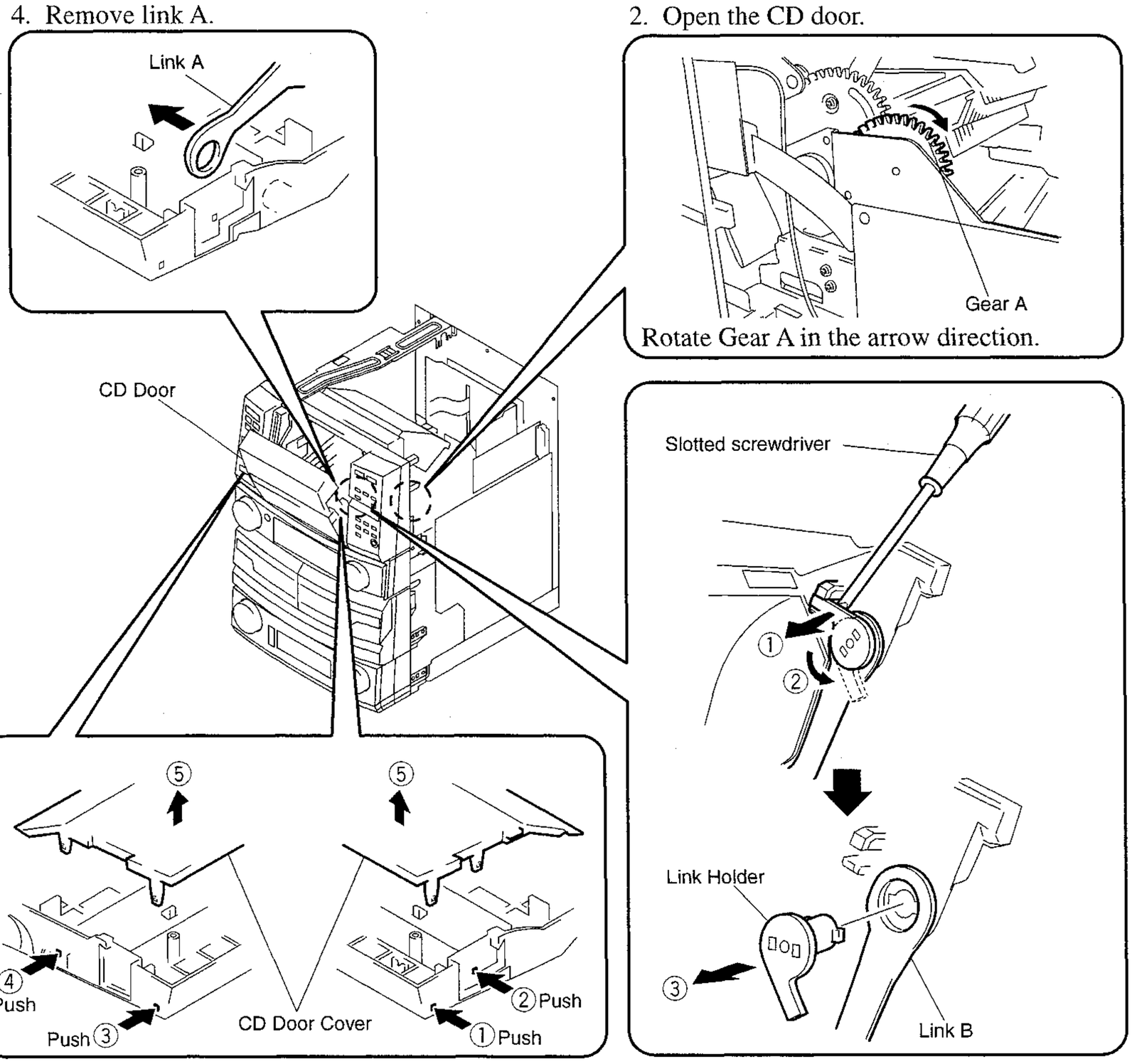
7.2 DIAGNOSIS

7.2.1 DISASSEMBLY

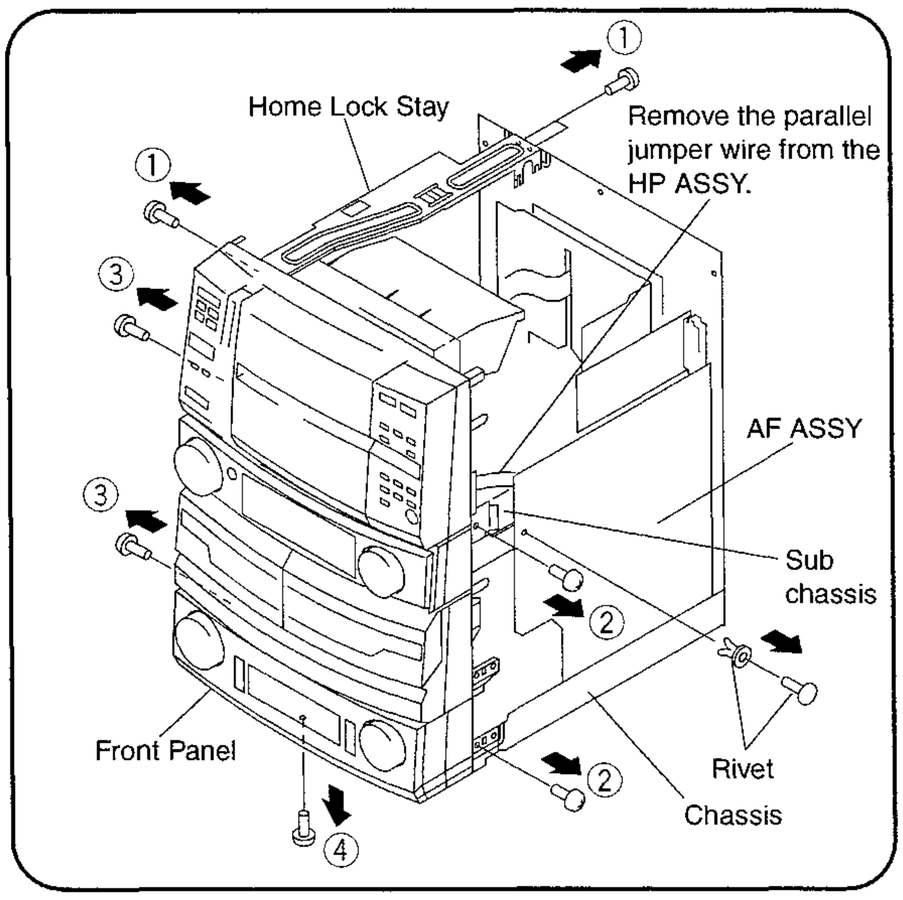
• Cassette deck mechanism unit:	Diagnosis and replacement ➡ Remove the front panel. (Refer to "Removing the Front Panel".)
• Power amplifier:	Diagnosis and replacement ➡ Remove the rear panel. (Refer to "Removing the AMP ASSY".)
• CD (GS) mechanism ASSY:	Diagnosis ➡ Remove the rear panel. Replacement ➡ Remove the rear panel, and remove the whole sub chassis. (Refer to "Removing the CD Mechanism Block".)

■ Removing the Front Panel

1. Remove the bonnet case.
2. Open the CD door.



3. Remove the CD door cover.
4. Remove link A.
5. Remove the link folder and link B.
6. Remove screws ① to ④, the rivet, and the parallel jumper wire.



7. Pull out the front panel from the chassis and sub chassis.

NOTE: In this state, the operations of the cassette deck can be checked.

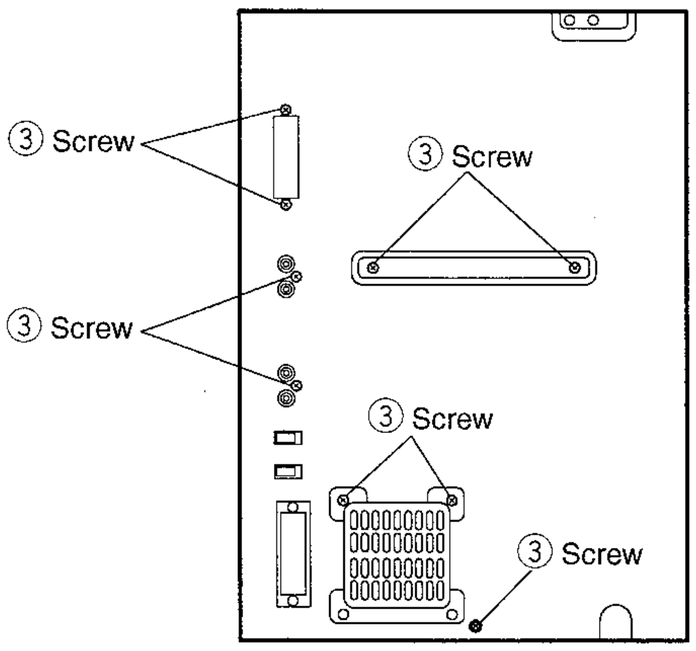
Perform the following to replace the cassette deck mechanism unit.

8. Remove the 3P connector of Deck I and 5P connector of Deck II.
9. Remove the flat cable (28P FFC) from the AF ASSY.
10. Remove the cassette deck mechanism unit from the front panel. (For XR-A800, remove the mechanism shield at the bottom of the cassette deck mechanism unit as well.)

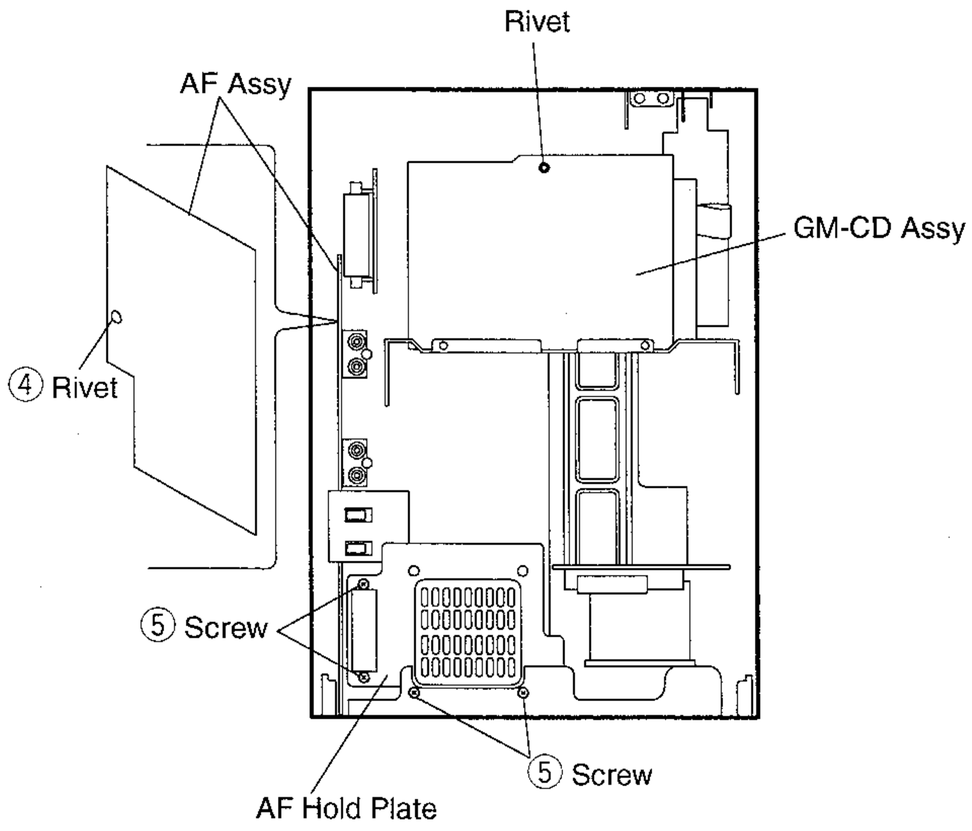
www.manualscenter.com

■ Removing the AMP ASSY

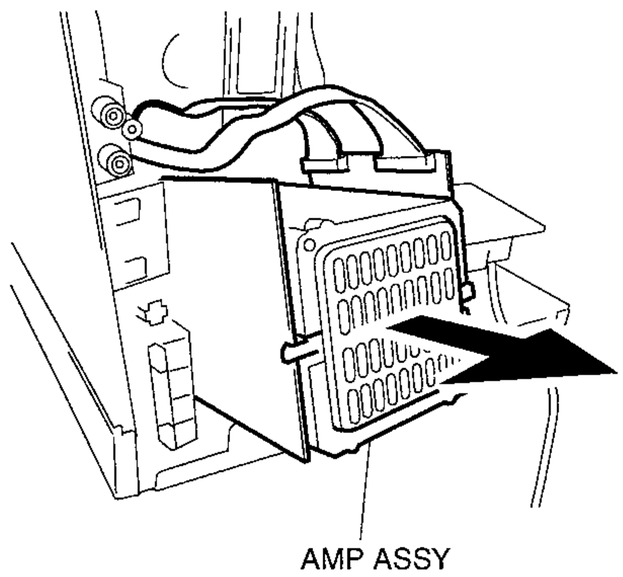
1. Remove the bonnet.
2. Remove the home lock stay.
   (Refer to "Removing the Front Panel".)
3. Remove the rear panel (remove the nine screws ③), and remove the rivet lock of the GM-CD ASSY.



4. Remove the rivet ④ securing the AF ASSY.
5. Remove the AF hold plate (remove the four screws ⑤).



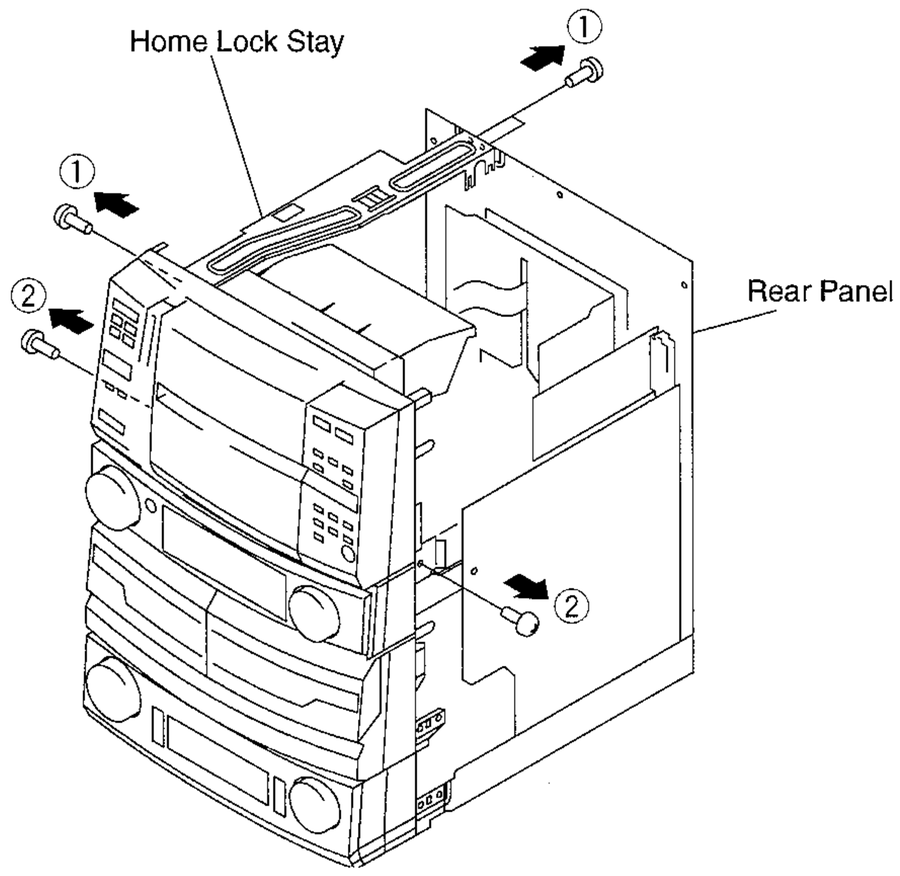
6. Pull out the AMP ASSY from the chassis.

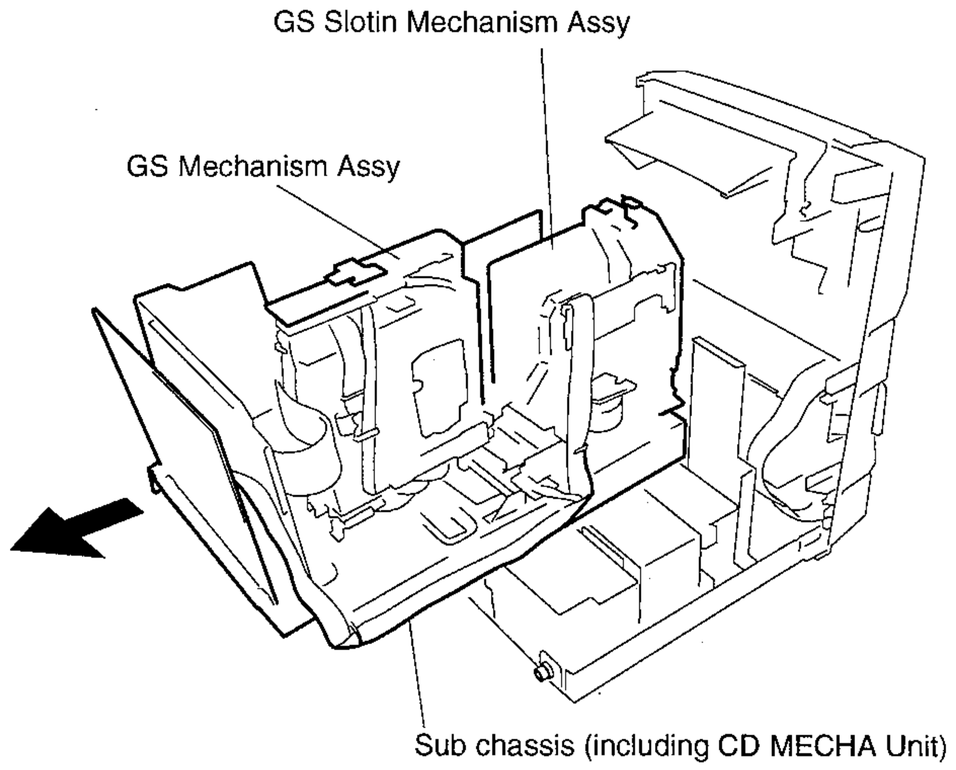


* In this state, the operations of the AMP ASSY can be diagnosed.
(However, be careful not to short-circuit the AF ASSY and chassis.)

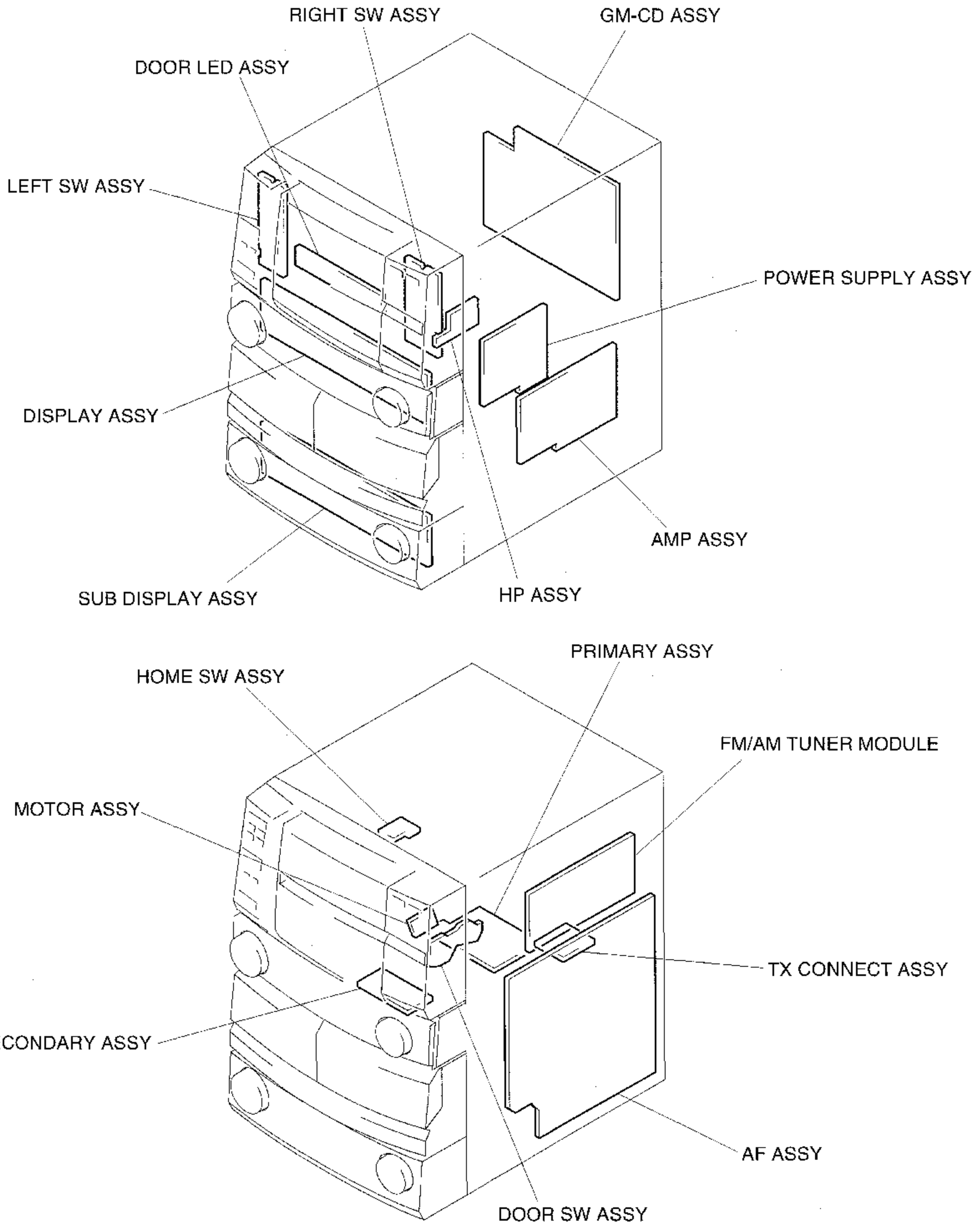
■ Removing the CD Mechanism Block (GS Mechanism Assy and GS Slot-In Mechanism Assy)

1. Remove the bonnet.
2. Remove the home lock stay. (Remove screw ①.)
3. Remove the rear panel.
   (Refer to step 3 in "Removing the AMP ASSY".)
   NOTE: The CD mechanism block can be diagnosed in this state.
4. Remove Link A and Link B.
   (Refer to "Removing the Front Panel".)
   (The front panel and CD mechanism block can be separated.)
5. Pull out the whole CD mechanism block with the sub chassis from the front panel. (Remove screw ②.)



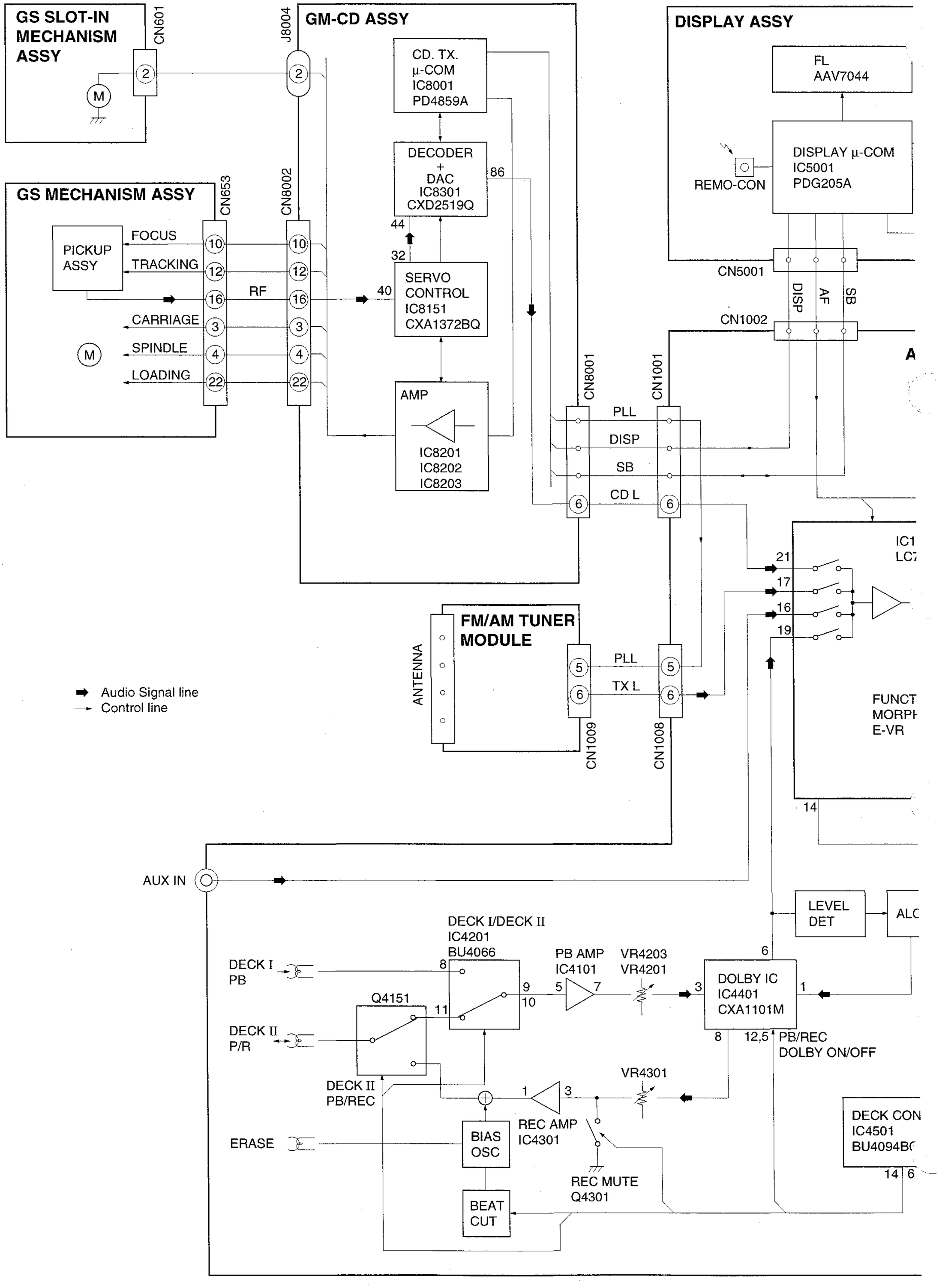


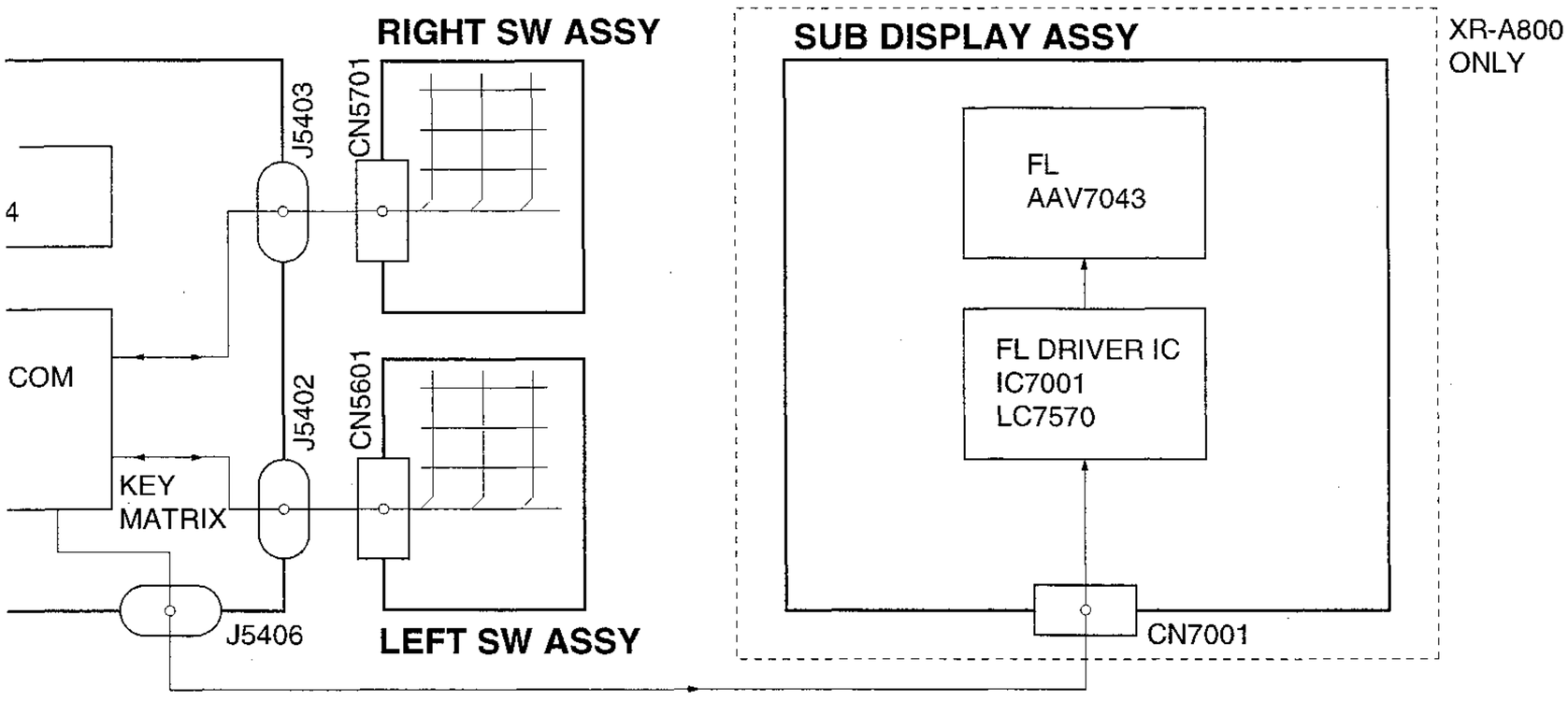
7.2.2 PCB LOCATIONS

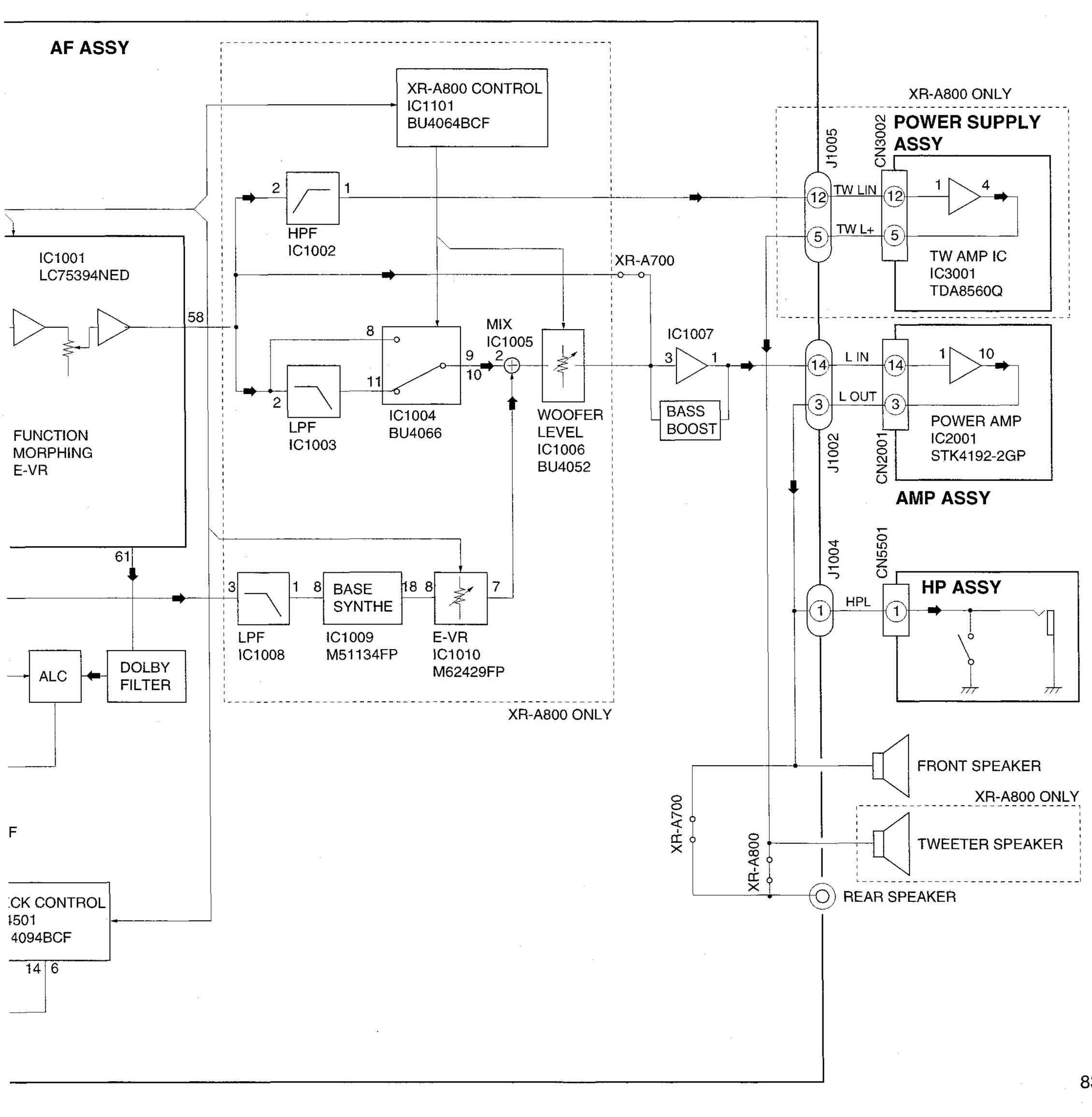


www.manualscenter.com

7.3 BLOCK DIAGRAM

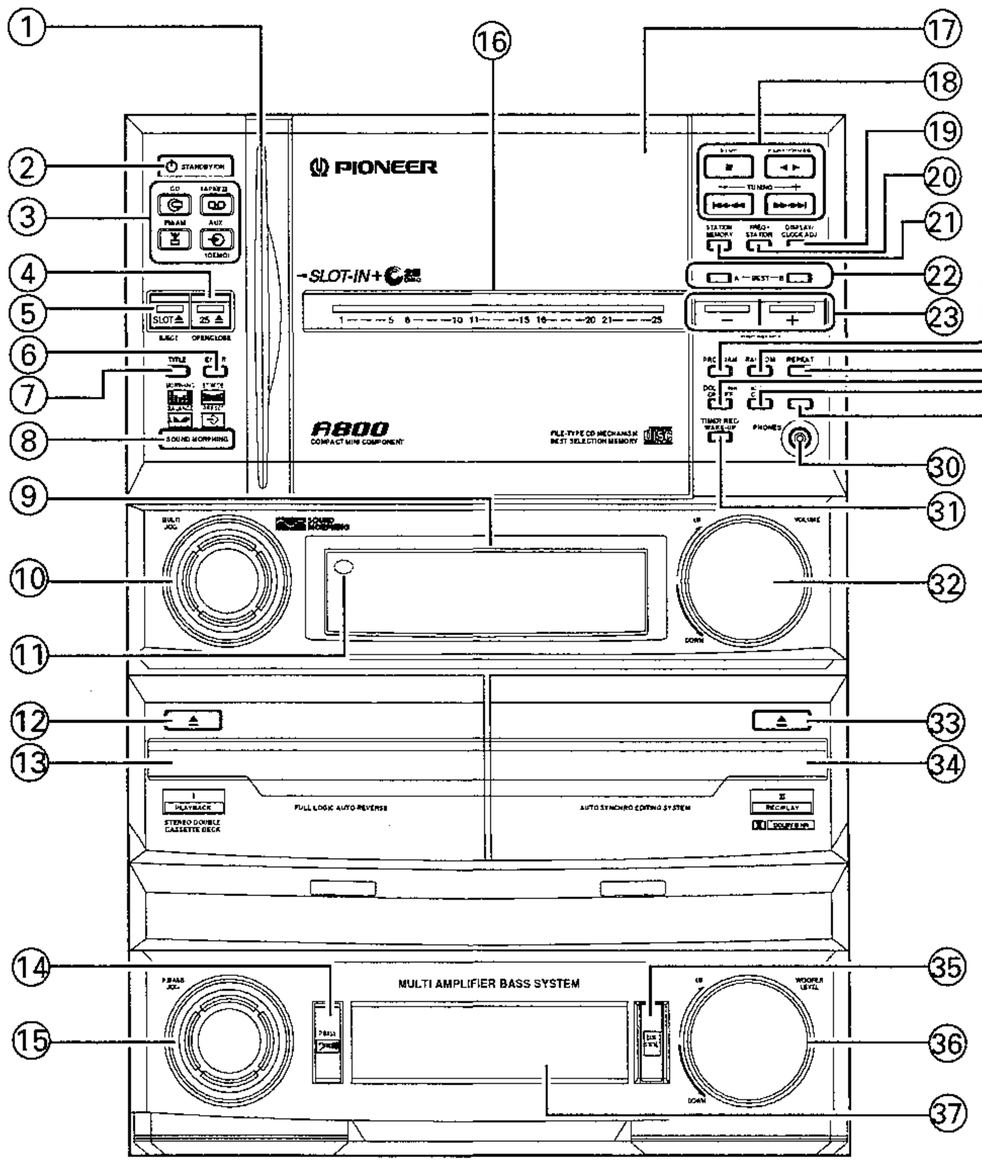



RIGHT SW ASSY
J5403
CN5701
4
COM
J5402
CN5601
KEY
MATRIX
J5406
LEFT SW ASSY
SUB DISPLAY ASSY
XR-A800
ONLY
FL
AAV7043
FL DRIVER IC
IC7001
LC7570
CN7001


AF ASSY
XR-A800 CONTROL
IC1101
BU4064BCF
XR-A800 ONLY
POWER SUPPLY
ASSY
J1005
CN3002
TW LIN
TW L+
TW AMP IC
IC3001
TDA8560Q
HPF
IC1002
XR-A700
IC1001
LC75394NED
58
MIX
IC1005
IC1007
BASS
BOOST
WOOFER
LEVEL
IC1006
BU4052
IC1004
BU4066
LPF
IC1003
L IN
L OUT
POWER AMP
IC2001
STK4192-2GP
AMP ASSY
J1002
CN2001
FUNCTION
MORPHING
E-VR
61
J1004
CN5501
HP ASSY
HPL
LPF
IC1008
BASE
SYNTHE
IC1009
M51134FP
E-VR
IC1010
M62429FP
XR-A800 ONLY
ALC
DOLBY
FILTER
FRONT SPEAKER
XR-A800 ONLY
XR-A700
XR-A800
TWEETER SPEAKER
REAR SPEAKER
CK CONTROL
1501
4094BCF

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES



The illustration shows the XR-A800.

① Plus 1 disc slot

② STANDBY/ON switch

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

③ Function buttons

④ 25 OPEN/CLOSE button

⑤ SLOT EJECT button

⑥ ENTER button

⑦ TITLE button

⑧ SOUND MORPHING button (MORPHING, ST.WIDE, BALANCE, PRESET: XR-A800) (MORPHING, P.BASS, ST.WIDE, BALANCE, PRESET: XR-A700)

⑨ Display

⑩ SOUND MORPHING JOG/MULTI JOG* dial

⑪ Remote sensor

⑫ TAPE I Eject (▲)

⑬ TAPE I cassette door

⑭ P.BASS button (XR-A800 only)

⑮ P.BASS JOG dial (XR-A800 only)

⑯ 25 DISC indicator

⑰ CD Door panel

⑱ Common operation button section

⑲ DISPLAY/CLOCK ADJ button

⑳ FREQ/STATION button

㉑ STATION MEMORY button

㉒ BEST (A, B) buttons

㉓ DISC SELECT + (up)/– (down) buttons

㉔ PROGRAM button

㉕ RANDOM button

㉖ REPEAT button

㉗ Dolby NR ON/OFF button**

Each time this button is pressed, the Dolby NR system turns on and off.

㉘ ASES/COPY button

㉙ REC/STOP button (●/■)

㉚ Headphones jack (PHONES)

㉛ TIMER REC/WAKE-UP button

㉜ VOLUME control

㉝ TAPE II Eject (▲)

㉞ TAPE II cassette door

㉟ BASS SYNTHE button (XR-A800 only)

㊱ WOOFER LEVEL control (XR-A800 only)

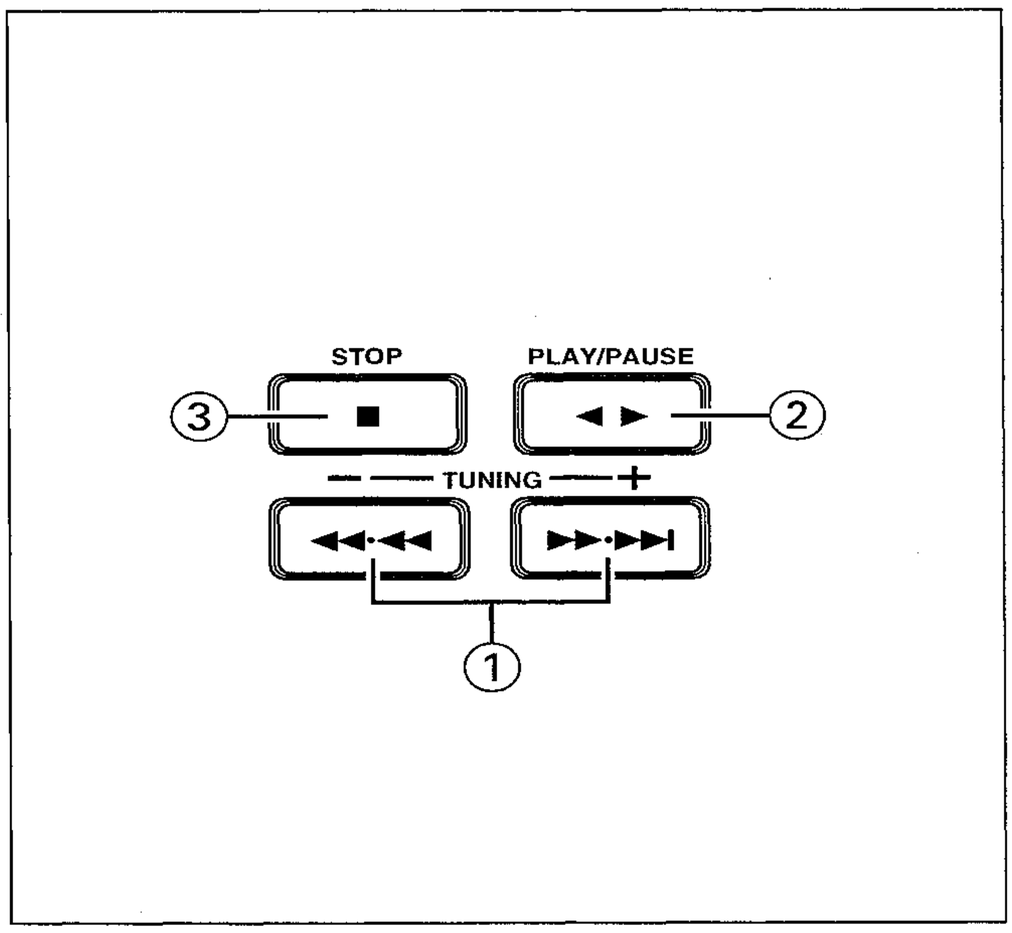
㊲ Display (XR-A800 only)

* ..... SOUND MORPHING JOG/MULTI JOG dial is used for multi-functions.

**

- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.*

www.manualscenter.com



COMMON OPERATION BUTTON SECTION

① ⏮, ⏭ buttons
② PLAY/PAUSE button (◄ ►)
③ STOP button (■)

- Roles of the common operation buttons. (The roles of the buttons vary depending on the input functions as shown below.)

During CD input

PLAY/PAUSE	:	Play/Pause button
STOP	:	Stop button
⏭	:	Fast forward/track search button
⏮	:	Fast reverse/track search button

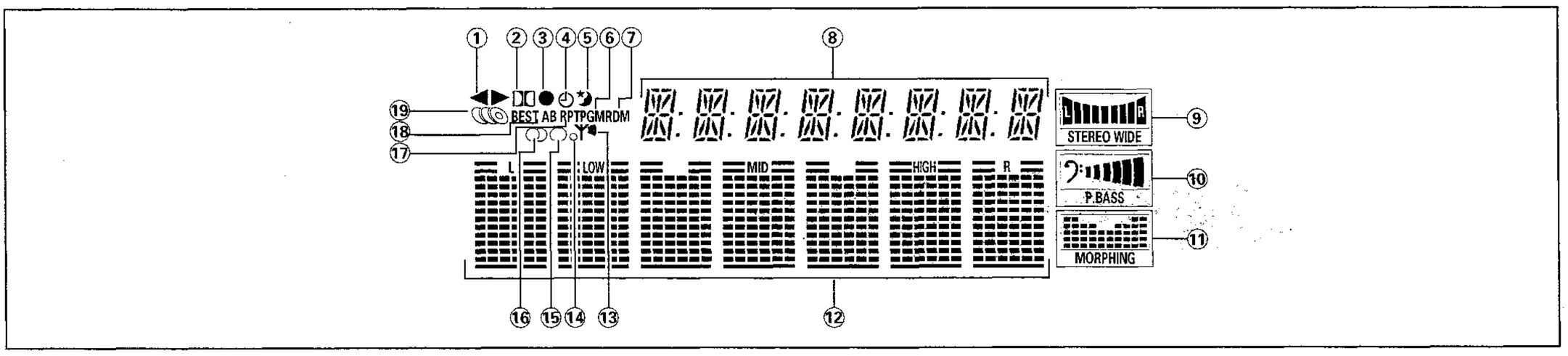
During cassette deck input

◄ ►	:	Play button/Tape transport direction
STOP	:	Stop button
⏭	:	Fast forward/Music search button
⏮	:	Rewind/Music search button

During tuner operation

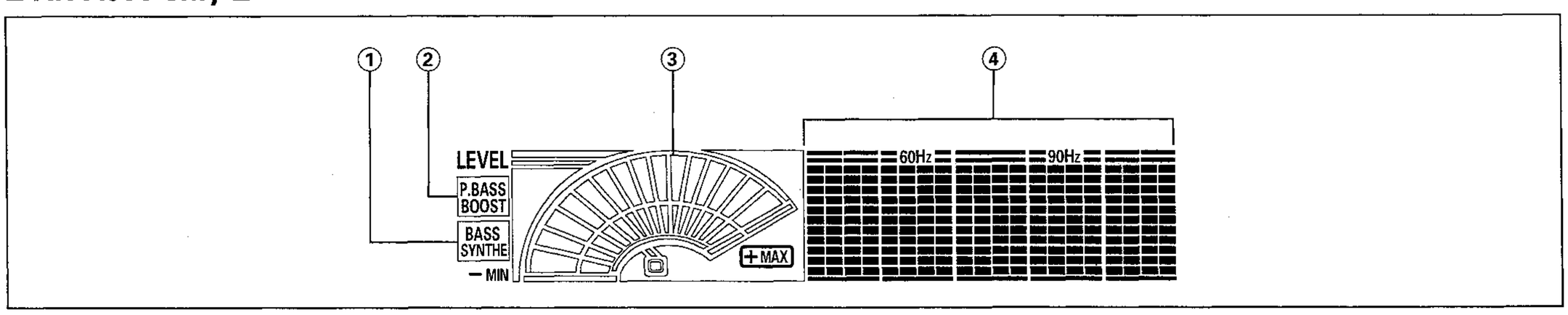
⏭	:	Frequency and station + (up) button
⏮	:	Frequency and station – (down) button

DISPLAY



① Lights to show the tape II direction.
② Lights when Dolby NR is ON.
③ Lights during recording and timer recording operation.
④ Lights when setting the timer.
⑤ Lights during sleep timer operation.
⑥ Lights when you press the PGM button.
⑦ Lights when you press the RANDOM button.
⑧ Indicates the frequency and major operation status.
⑨ Displays the ST.WIDE mode.
⑩ Displays the P.BASS mode.
⑪ Displays the MORPHING mode.
⑫ Displays the spectrum analyzer patterns.
⑬ Lights during radio broadcast reception.
⑭ Lights when setting the Beat Cut function.
⑮ Lights when you press the MONO button.
⑯ Lights during FM stereo reception.
⑰ Lights during repeat play.
⑱ Flashes during Best Selection setting (A or B), and lights during play.
⑲ : Lights during ALL mode operation.
: Lights during SINGLE mode operation.

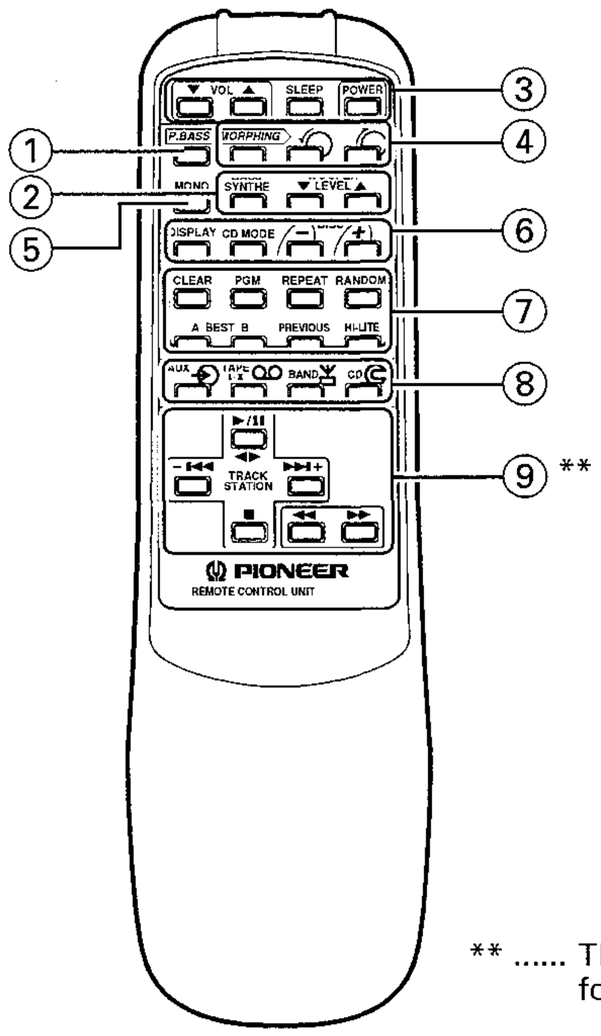
■ XR-A800 only ■



① Lights when BASS SYNTHE button is ON.
② Lights when P.BASS button is ON.
③ Displays the woofer level.
④ Displays the spectrum analyzer patterns of the low frequencies.

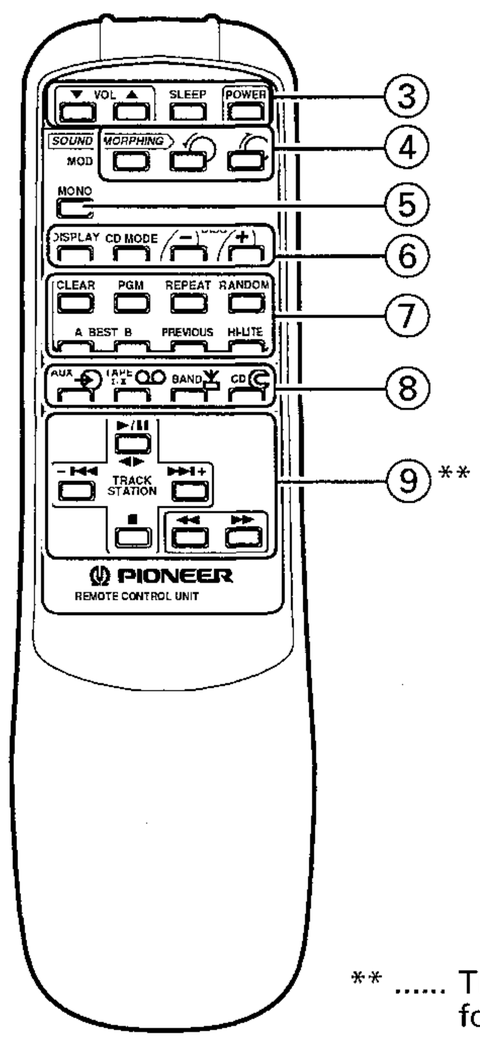
www.manualscenter.com

XR-A800



** ..... These buttons are used for multi-functions.

XR-A700



** ..... These buttons are used for multi-functions.

REMOTE CONTROL UNIT

The following instructions concern the XR-A800.

① **P.BASS : P.BASS button**

② **BASS SYNTHE : BASS SYNTHE ON/OFF button**
WOOFER ▼ LEVEL ▲ : WOOFER LEVEL ▼ (down) ▲ (up) buttons

The following instructions are for both the XR-A800 and the XR-A700.

③ **POWER button**
SLEEP : SLEEP button
VOLUME ▲ (up), ▼ (down) buttons
Increases/decreases the sound volume of the unit.

④ **: SOUND MORPHING JOG buttons**
MORPHING : SOUND MORPHING button

⑤ **MONO : MONO button**

⑥ **– DISC + : DISC (–, +) buttons**
CD MODE : CD MODE button
DISPLAY : DISPLAY button

⑦ **RANDOM : RANDOM button**
REPEAT : REPEAT button
PGM : PROGRAM button
CLEAR : CLEAR button
HI-LITE : HI-LITE button
PREVIOUS : PREVIOUS button
A BEST B : BEST (A, B) buttons

⑧ **Input selector buttons (CD, TUNER, TAPE, AUX)**

⑨ **Common operation buttons**
During CD input
►/II : Play/Pause button
–I◄◄, ►►I+ : Track search button
■ : Stop button
◄◄, ►► : Fast reverse/Fast forward button

During cassette deck input
◄► : Play/Tape transport direction button
–I◄◄, ►►I+ : Music search button
■ : Stop button
◄◄, ►► : Rewind/Fast forward button

During tuner operation
–I◄◄, ►►I+ : Station – (down)/+ (up) button
◄◄, ►► : Frequency down/up button

www.manualscenter.com

8.1 SPECIFICATIONS

■ STEREO FILE-TYPE CD CASSETTE DECK RECEIVER

Amplifier Section

Continuous Power Output (RMS)
- XR-A800
  - Woofer ..... 120 W + 120 W (100 Hz, T.H.D. 10 %, 8 Ω)
  - Tweeter ..... 20 W + 20 W (1 kHz, T.H.D. 10 %, 4 Ω)
- XR-A700 ..... 120 W + 120 W (1 kHz, T.H.D. 10 %, 6 Ω)

FM Tuner Section

Reception frequencies ..... 87.5 MHz to 108 MHz
Antenna input ..... 75 Ω unbalanced

AM Tuner Section

Reception frequencies ..... 531 kHz to 1,602 kHz (9k)
530 kHz to 1,700 kHz (10k)
Antenna ..... Loop antenna (included)

Double Cassette Deck Section

System type ..... 4-track, 2-channel stereo
Heads ..... Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor ..... DC servo motor x 1
Frequency response
- Type I (Normal) tape ..... *35 Hz to 14,000 Hz ±6 dB (recorded at –20 dB)

SN ratio ..... *56 dB (peak recording level, audible compensation)
Dolby B type NR on ..... 10 dB compensation at 5 kHz

* Values measured in accordance with EIAJ standards.

■ FILE TYPE CD PLAYER

Type ..... Compact disc audio system
Usable discs ..... Compact audio discs
Channels ..... 2 channels (stereo)
Program steps ..... 32 steps maximum

■ ELECTRICAL REQUIREMENTS, ETC.

Power Requirements ..... AC 110-127/220-230/240 V (switchable), 50/60 Hz
Power Consumption
- XR-A800 ..... 610 W
- XR-A700 ..... 560 W

External dimensions
- XR-A800 ..... 270 (W) x 380 (H) x 369 (D) mm
- XR-A700 ..... 270 (W) x 310 (H) x 369 (D) mm

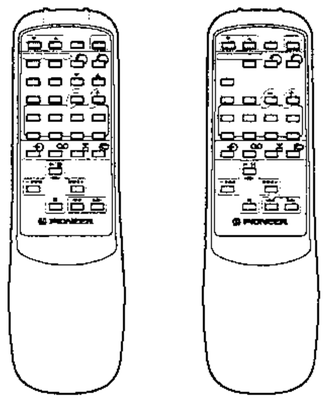
Weight
- XR-A800 ..... 12.5 kg
- XR-A700 ..... 11.5 kg

■ ACCESSORIES

Operating Instructions 1
FM antenna 1
AM loop antenna 1
Remote control unit 1
AA/R6P dry cell batteries 2

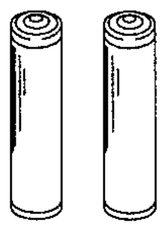
NOTE:
Specifications and design are subject to possible modifications without notice, due to improvements.

①



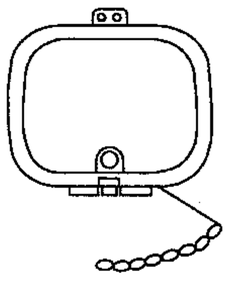
XR-A800 XR-A700
Remote Control Unit
XR-A800 (CU-XR045) : AXD7147
XR-A700 (CU-XR044) : AXD7146

②



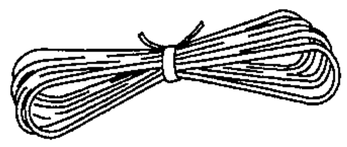
AA/R6P Dry Cell Batteries
VEM-013

③



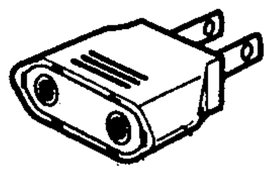
AM Loop Antenna
ATB7004

④



FM Antenna
ADH7007

⑤



Power-cord Plug Conversion Adaptor
VKX1007 (XR-A800/DXJ/NC, XR-A700/DXJ/NC only)